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# A Handbook for Agricultural Students and Their Advisers



Mumford Hall, College of Agriculture, University of Illinois

By  
C. D. Smith, Assistant Dean

University of Illinois College of Agriculture  
Urbana, Illinois  
1956-57

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Name of Student: \_\_\_\_\_

Local Address: \_\_\_\_\_  
(Number and Street) (Champaign or Urbana)

Home Address: \_\_\_\_\_  
\_\_\_\_\_

Name of Faculty Adviser: \_\_\_\_\_

Office Address \_\_\_\_\_ Phone \_\_\_\_\_

Office Hours: \_\_\_\_\_

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 Name of Faculty Adviser: \_\_\_\_\_  
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 Phone: \_\_\_\_\_  
 Office Hours: \_\_\_\_\_



## Student Objectives

Every student who enters upon a University program should set up an educational goal that fits his abilities and interests and has such appeal for him that he will exert the effort and make the sacrifices necessary to complete his program. Although freshman interviews show that a high percentage of entering students plan to graduate, fewer than half of them complete their college work. Only a small percentage lack the inherent capacity to complete a well-selected college program with realistic goals based on abilities and interests. Most of those who drop out along the way do so because they have no goals which they are determined to reach.

The importance of setting adequate goals for yourself is shown in the following statement:

"Our skill in reaching objectives may depend in no small degree upon the clarity with which we see them. Once our objectives are clearly visible the appropriate steps for reaching them may be initiated--University objectives are concerned with the whole fabric of higher education rather than the achievement of predetermined and often narrow goals in the shortest possible time. . . . It has been suggested that four of the principal goals of professional education are the production of students possessing at graduation: (1) a minimum body of basic and fundamental knowledge which is commonly possessed by members of the profession; (2) skill in handling source materials and in adding to one's body of knowledge; (3) the ability to think, analyze, and act in the presence of new or unprecedented situations; and (4) an ethical attitude toward the uses to which a member of the profession may put his knowledge and skill."<sup>1/</sup>

Many students are inadequately motivated because their goals have been too narrowly defined. Hence the basic or fundamental subjects are termed uninteresting and impractical. Selecting courses dealing only with the methods of performing the duties of a particular job, without basing the practical skills on deeply grounded principles, will result in a perishable education. Today's world is characterized by rapid change. Few jobs are done the same way for more than ten years. The more deeply rooted your understanding, the less likely you are to be uprooted by the swift winds of change.

## Student Plans and Student Guidance

The fact that many students arrive at the University with undefined educational goals is not a serious handicap, but it can become serious if they do not begin to set up clear-cut goals in line with their capacities and interests soon after they arrive. Each freshman entering the University of Illinois is given a battery of guidance tests to help him enter upon and follow an educational program suited to his abilities. But tests alone are not enough. The goals you set must be individually chosen and must command your interests, loyalties, and devotion to the point where the effort and sacrifice necessary to attain them will be exerted.

The table on the following pages shows the range and pattern of employment normally undertaken by graduates in agriculture. It is an actual record of jobs held in 1950 by graduates. Information about trends in employment and current calls for trained personnel can be obtained from the Associate Dean's Office, 104 Mumford Hall, or from your faculty advisor.

<sup>1/</sup> Report of the Special Committee of the National Association of State Universities to Study Postwar Educational Problems--Mimeograph, 1944.

THE UNIVERSITY OF CHICAGO

[illegible]

and in order to improve the living conditions of the population of the Republic of Serbia, the Government of the Republic of Serbia has decided to take the following measures:

1. The first is the fact that the Commission has not yet received any information from the Government of the United States regarding the activities of the Committee for the Liberation of the People of the South (CLPS) in the United States. The Commission is therefore unable to determine whether the CLPS is a legitimate organization or a subversive group.

2. The second is the fact that the Commission has not yet received any information from the Government of the United States regarding the activities of the Committee for the Liberation of the People of the South (CLPS) in the United States. The Commission is therefore unable to determine whether the CLPS is a legitimate organization or a subversive group.

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9. The ninth is the fact that the Commission has not yet received any information from the Government of the United States regarding the activities of the Committee for the Liberation of the People of the South (CLPS) in the United States. The Commission is therefore unable to determine whether the CLPS is a legitimate organization or a subversive group.

10. The tenth is the fact that the Commission has not yet received any information from the Government of the United States regarding the activities of the Committee for the Liberation of the People of the South (CLPS) in the United States. The Commission is therefore unable to determine whether the CLPS is a legitimate organization or a subversive group.

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The title of the following report shows the source and location of the information furnished by the Bureau. It is in general the same as that of the original report. The report is in general the same as that of the original report. The report is in general the same as that of the original report.

1. The first of the two points mentioned in the above paragraph is the fact that the Commission has not yet received any information from the Government of the Republic of China (Taiwan) regarding the situation of the Chinese population in the occupied territories.



The University has provided the following five main agencies to give you help and guidance in selecting and planning your individual program:

1. The Student Counseling Bureau, 311 Administration (E), administers and interprets tests and counsels students on personal problems.
2. The Faculty Adviser, a member of the teaching staff who is chosen by the student or assigned by the Associate Dean's office, helps the student with the ordinary problems of course selection and individual activities. Each faculty adviser serves only as many students as he can know well. If you fail to become acquainted with your adviser, the purpose of the advisory plan is defeated. Your faculty adviser is glad to assist you--make use of him.

It is particularly important for you to seek the counsel of your faculty adviser before and during registration in order that your program may be carefully planned. Far too often students turn to anyone who will sign a study list. This is likely to result in a short-sighted semester program which will not lead directly toward your objective.

A faculty adviser is assigned to new freshmen without consultation, because the freshmen usually are not acquainted with members of the staff. During the second year, the student is invited to select his own adviser with the help of the staff in the Associate Dean's office. If at any time you wish to change programs or advisers, you should come to the Associate Dean's office.

3. The Instructor is a specialist in his field, well acquainted with the subject matter and its related employments. Do not hesitate to discuss your problems with your instructors. They are here to serve you. They can provide channels through which you may see new opportunities. To locate instructors, use the Directory of Staff and Students.
4. The Dean and the Associate Dean of the college are responsible for administering student programs and for keeping records. The Associate Dean's office is the principal center for information about college and university regulations, grade requirements, credits to be earned, honors, employment opportunities, and many other facts concerning your educational progress. You should feel free to call on this office with any problem on which you feel you need help.
5. The office and personnel headed by the Dean of Students, 152 Administration (W), including the Dean of Men, 157 Administration (W), the Dean of Women, 100 Bevier Hall, the Health Service, Davenport House, and the Director of Residence Halls and Student Housing, 108 Illini Hall, are ready to serve all students, particularly with relation to problems outside the area of formal education.





## JOB DISTRIBUTION AND SALARIES OF AGRICULTURAL GRADUATES AS OF 1950

Job title	Graduates		Salary		Years since graduation				
	No.	% of total	No. re- porting	Average salary	1-10	11-20	21-30	31-40	41-50
<b>EDUCATIONAL WORKERS</b>									
College Teachers (total)	143	5.61	115	\$5,918	46	29	37	29	2
Grad. Assistants	22	.86	-	-	21	1	-	-	-
Instructors	17	.67	16	4,536	8	5	3	1	-
Assistant Professors	30	1.18	27	4,922	11	9	8	2	-
Associate Professors	21	.82	20	5,685	3	6	11	1	-
Professors	53	2.08	52	6,951	3	8	15	25	2
College Administrators	9	.35	8	8,035	1	2	3	3	-
County Agents (Farm Advisers)	92	3.61	89	5,345	22	33	21	16	-
Asst. County Agents & Youth Advisers	49	1.92	49	3,520	47	2	-	-	-
Extension Specialists & Directors	29	1.14	29	5,666	6	7	8	8	-
High School Teachers	431	16.92	391	4,356	233	81	87	30	-
Total Educational Workers	753	29.56	681	4,788	355	154	156	86	2
<b>PROFESSIONAL TECHNICIANS</b>									
Agronomists (total)	101	3.97	95	5,142	39	27	23	12	0
Soil Conservation Service	53	2.08	50	4,453	23	15	11	4	0
Soils	26	1.02	24	5,584	8	5	9	4	0
Crops	22	.86	21	6,278	8	7	3	4	0
Animal Husbandmen	20	.79	16	4,938	14	4	2	0	0
Chemists and Bacteriologists	24	.94	19	6,355	10	4	7	3	0
Dairy Husbandmen	17	.67	16	4,010	12	4	0	1	0
Economists & Statisticians	49	1.92	47	6,897	18	14	13	4	0
Engineers (Agr. & Others)	22	.86	19	5,096	8	4	5	5	0
Entomologists & Zoologists	9	.35	8	5,980	0	2	6	0	1
Farmers Home Administration	23	.90	20	4,881	8	8	4	3	0
Horticulturists	10	.39	7	6,209	2	1	5	2	0
Inspectors (Grain, Seed, & Feed)	18	.71	16	4,653	8	5	4	1	0
Total Professional Technicians	293	11.50	263	5,463	119	73	69	31	1
<b>FARMERS &amp; FARM MANAGERS</b>									
Farmers (total)	540	21.20	264	6,162	213	139	99	74	15
Owner-Operators	195	7.66	71	7,787	18	30	72	61	14
Partnerships	143	5.61	81	5,450	90	38	12	3	0
Tenants	194	7.62	106	5,851	97	71	15	10	1
Farm Hands	8	.31	6	2,033	8	0	0	0	0
Farm Managers	113	4.44	96	5,000	49	34	16	10	4
Total Farmers & Farm Managers	653	25.64	360	5,852	262	173	115	84	19





## JOB DISTRIBUTION AND SALARIES OF AGRICULTURAL GRADUATES AS OF 1950 - cont.

Job title	Graduates		Salary		Years since graduation				
	No.	% of total	No. re- porting	Average salary	1-10	11-20	21-30	31-40	41-50
<b>BUSINESS &amp; INDUSTRY</b>									
Managers and Supervisors	233	9.15	208	\$8,148	73	75	58	24	3
Agriculture Cooperatives	18	.71	18	6,207	8	4	5	1	0
Dairy Manufactures	65	2.55	57	8,529	19	26	15	5	0
Fruits, Vegetables, & Produce	17	.67	13	6,336	8	4	1	4	0
Grain, Seed, Feed, Fertilizer	50	1.96	45	9,288	14	15	16	4	1
Hatcheries	11	.43	7	6,641	3	6	1	1	0
Livestock Marketing & Meat Packing	16	.63	16	4,108	7	2	4	2	1
Machinery, Equipment, & Service	53	2.08	49	8,629	14	17	15	6	1
Miscellaneous Business & Service	3	.12	3	20,500	0	1	1	1	0
Salesmen & Sales Managers	176	6.91	153	6,378	84	38	31	19	4
Agricultural Chemicals	8	.31	8	6,388	5	3	0	0	0
Dairy Products	16	.63	14	6,700	8	7	1	0	0
Feed	18	.71	16	5,351	12	3	2	1	0
Fertilizer	20	.79	18	4,703	12	4	3	1	0
Grain, Grain Products, & Seed	20	.79	19	6,169	8	5	5	1	1
Insurance	48	1.88	36	7,510	24	8	6	8	2
Livestock Products (Meat, Eggs)	8	.31	8	4,510	8	0	0	0	0
Machinery & Equipment	21	.82	18	7,683	5	5	6	4	1
Miscellaneous Products & Equipment	17	.67	16	6,164	2	3	8	4	0
Owners & Operators, Miscellaneous, Non-Agricultural Businesses	31	1.22	23	12,470	3	6	6	15	1
Florists, Nursery, & Landscaping	82	3.22	58	7,488	16	30	20	15	1
Farm Loans & Appraisal	47	1.85	47	5,773	8	21	7	11	0
Bank Officials	16	.63	15	9,685	2	3	6	5	0
Real Estate & Loan Agents	11	.43	8	9,512	1	0	6	4	0
Journalism, Radio & Advertising	37	1.45	29	8,570	11	8	10	8	0
Public Relations	9	.35	9	8,581	2	2	4	0	1
Laboratory Technicians	8	.31	8	2,981	7	0	1	0	0
Total Business & Industry	650	25.52	558	7,588	207	183	149	101	10
<b>MISCELLANEOUS PROFESSIONS &amp; OTHERS</b>									
Doctors & Dentists	11	.43	-	-	1	3	3	3	1
Veterinarians	5	.20	-	-	5	0	0	0	0
Lawyers	11	.43	-	-	7	1	2	1	0
Ministers & Missionaries	11	.43	7	4,200	3	1	5	2	0
Public Officials (Government)	42	1.65	35	5,989	7	5	18	11	1
Army, Navy, and Air Force	22	.86	19	6,009	9	10	2	1	0
Students (Graduate & Professional)	46	1.81	-	-	42	2	2	0	0
Retired & Disabled	26	1.02	-	-	2	0	3	19	2
General Miscellaneous	24	.94	18	4,362	10	6	5	3	0
Totals	198	7.77	79	5,465	85	28	40	40	4
<b>GRAND TOTAL</b>	<b>2,547</b>	<b>99.99</b>	<b>1,941</b>	<b>\$ 5,909</b>	<b>1,029</b>	<b>611</b>	<b>529</b>	<b>342</b>	<b>36</b>





## CURRICULA AND MAJORS AS EDUCATIONAL PROGRAMS

The College of Agriculture has, excluding home economics, eight curricula leading to degrees and one pre-professional curriculum leading, at the end of two years, to entrance upon professional training in forestry.

The four-year curricula are:

1. General Agriculture
2. General Agriculture, Teacher Training
3. Agricultural Science
4. Dairy Technology
5. Floriculture
6. Food Technology
7. Horticultural Food Crops
8. Restaurant Management

Recommended choices of electives for students who wish to complete certain majors or lines of training adapted to selected areas of employment are provided on pages 9 to 21. A complete program for those planning to teach vocational agriculture in high schools is listed on pages 22 to 24.

Curricula are educational programs carefully planned to guide students whose educational goals are within certain related areas. They contain:

1. The basic skills or foundation courses required of all students, such as rhetoric, hygiene, physical education and, for men, military training.
2. A minimum content of general education, particularly in the humanities and social studies, widely held to be essential in any program of college education.
3. The basic sciences and, for some fields, mathematics.
4. Applied courses leading to professional attainments sufficient to permit entrance to some field of professional work or more advanced training on the graduate level. Students planning graduate study should consider the curriculum in agricultural science (pages 25-27).

The following pages present the agricultural curricula in outline form suitable for use as guides or check sheets. Each student should use the appropriate curriculum page to record his progress. As each course is completed, the grade can be inserted, and it will then be possible to determine the remaining requirements. When the student reaches the senior level, the Associate Dean's office sends him a check sheet showing the work yet to be completed before graduation. The student may obtain this service at any time he and his faculty adviser find need for it.

With the exception of the curricula in agricultural science and in general agriculture, elective freedom is limited because the field of work to which each of the other curricula leads calls for specialized training of a specific character.



THE HISTORY OF THE UNITED STATES OF AMERICA

The history of the United States of America is a story of the growth of a nation from a collection of colonies to a powerful republic. It is a story of the struggles of the people for freedom and justice, and of the triumphs of the American spirit.

THE FOUNDING OF THE NATION

- 1. The Pilgrims and the Mayflower
- 2. The Dutch and the Hudson River
- 3. The French and the Mississippi
- 4. The Spanish and the Southwest
- 5. The British and the East Coast
- 6. The American Revolution
- 7. The Constitution
- 8. The Early Republic

The history of the United States of America is a story of the growth of a nation from a collection of colonies to a powerful republic. It is a story of the struggles of the people for freedom and justice, and of the triumphs of the American spirit.

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The curriculum in general agriculture is designed to meet the needs of large numbers of students planning to farm or work in other areas that call for broad training but do not require a specialized foundation in basic science or mathematics. The curriculum in agricultural science is suited to those students desiring a stronger foundation in science or mathematics, and it is especially recommended for all students expecting to do graduate study or enter upon advanced technical work in an agricultural industry. A student selecting the curriculum in agricultural science should ask for assignment to a faculty adviser in his field of special interest. Ordinarily this should be done by the beginning of the sophomore year. The purposes of the curricula in dairy technology, floriculture, food technology, horticultural food crops, and restaurant management are indicated by their names. Students wishing to follow these curricula or the pre-forestry curriculum should indicate this fact to the freshman section adviser or to the Associate Dean and secure an appropriate assignment of a faculty adviser. The student should refer to the University of Illinois Undergraduate Study Bulletin for course descriptions.

All students in the College of Agriculture should secure and keep for reference two printed booklets normally handed out during the first freshman registration. These booklets are (1) "University of Illinois Regulations Applying to Undergraduate Students" and (2) "Scholastic Regulations applying to Undergraduate Students, College of Agriculture." The first of these booklets contains many items of information useful to all students in the University. The second contains information about required standards of scholarship and provisions for graduation with honors in the College of Agriculture.

#### Requirements for Graduation

Students who have satisfied the general University requirements for graduation, have maintained throughout their courses a satisfactory record of scholarship and moral character, and have completed a curriculum in the College of Agriculture, including the prescribed studies and sufficient electives, are graduated with the degree of Bachelor of Science. For the degree in horticultural food crops, 136 semester hours of credit are required for graduation, including military and physical education. For the degree in food technology, the requirement for graduation is 130 hours, exclusive of the first two years of basic military and physical education. All other agriculture curricula require 130 hours, including basic military and physical education. Students who transfer from other educational institutions are required to complete in residence at least half the technical agriculture credit required for the degree; they must also complete their senior year, of not less than 30 semester hours, in residence at the University.

Chemistry. The faculty of the College of Agriculture considers chemistry an essential basic science for all students in agriculture. Much of the technical and scientific progress in agriculture has been and will continue to be based on a thorough knowledge of chemistry. In certain curricula, such as general agriculture, teacher training, floriculture, and restaurant management, Chemistry 111 and Chemistry 132 are terminal courses and satisfy the minimum chemistry requirements for graduation. However, for certain majors and for graduate work in many fields of agriculture, additional courses in chemistry, such as Chemistry 105, 122, and 133 instead of 132, may be desirable or essential. Generally, Chemistry 111 will serve as a prerequisite to Chemistry 105 only if the student earns a grade of "A" or "B" in Chemistry 111. Chemistry 132 does not satisfy the prerequisite for Chemistry 350, Biochemistry.

Credit Restrictions. Credit toward graduation is given for work in physical education and military training, and grades in these courses are included in





the student's average. However, not more than six hours of credit in physical education may be counted toward graduation. Courses in dance, health education, and recreation are not included in this six-hour restriction.

No typing or shorthand courses, not more than two hours of credit in music ensemble courses, and not more than ten hours of credit in religion may be counted toward graduation.

Not more than ten hours of credit in special problems courses may be counted toward graduation in agriculture and home economics curricula. Approval of the Associate Dean, department head, and instructor is necessary for the second or third special problems course in order to avoid duplication of credit.

Grade-Average Requirements. Students who first entered the University of Illinois between October 1, 1947, and August 1, 1956, must attain a grade-point average of not less than 3.0 ("C") to qualify for the B. S. degree. All work taken, both in residence and transferred, is included in the computation of grade averages. This includes grades of "E" (failure), "ab" (absent), and "dr" (dropped). Grades of "E", "ab", or "dr" always remain in the over-all average, even though the student repeats the course. Grades of "ab" and "dr" are equivalent to "E".

Effective August 1, 1956, each candidate for graduation must have an average of not less than 3.0, including grades in courses transferred from other institutions, and he must have an average of not less than 3.0 in all courses taken at the University of Illinois. Students who transfer work after August 1, 1956, will be subject to this requirement even though they may originally have enrolled in the University of Illinois prior to August 1, 1956. When a course has been repeated, both the original and subsequent grades are included in the average. (Example: If a student has completed a course with a grade of "D" and obtains the Associate Dean's permission to repeat the course, and upon second registration receives a grade of "C", both grades will be used in computing the over-all average. Credit is, however, given only once for the same course.)

#### General University Requirements

Certain courses, such as rhetoric, military science (for men), and physical education, are required for all students. Unless specifically exempted, each student is expected to register for these courses each semester until he has completed the requirements in each.

Rhetoric. Satisfactory proficiency in the use of written English is a requirement for graduation. All students entering the University as freshmen directly from secondary schools are required to take a placement test in rhetoric. Those who fail the test must register in Rhetoric 100, a non-credit course. Students who receive grades of "C" or "D" in Rhetoric 102 (or its equivalent) are required to take an English qualifying examination before graduating. Those who fail to pass the qualifying examination are expected to pass an extra semester courses in rhetoric (Rhetoric 200).

Military and Physical Education. Students entering the University with less than sixty semester hours of credit are required to secure four semesters of credit in physical education and military (unless otherwise exempt from the military requirement). Those who enter the University with sixty or more semester hours of credit are exempt from the requirement in physical education and basic military.





General Agriculture Curriculum  
(for the degree of Bachelor of Science in Agriculture)

This curriculum is designed for students in agricultural fields not requiring an intensive science foundation, such as farming, agricultural extension, agricultural journalism, agricultural marketing, animal and poultry science, dairy production, farm crops, farm management, farm mechanization, fruit production, rural group leadership, soil conservation, vegetable production, and others. A minimum of 130 semester hours is required for graduation.

Suggested schedule of courses for the first two years:

<u>First Semester</u>		<u>First Year</u>		<u>Second Semester</u>	
	Hours				Hours
Bot. 100--General Botany	4	Chem. 101, 102, or 111--Gen. Chem. <sup>1/</sup>	3-5		
Hygiene 101--Health Lectures	2	Rhet. 102--Rhetoric and Comp.	3		
Rhet. 101--Rhetoric and Comp.	3	Zool. 104--Elem. Zoology	4		
Mil. & P. E.	2	Mil. & P. E.	2		
Two courses from Group I	6	One course from Group I	3 or 4		
Total	17	Total	15 or 18		
		<u>Second Year</u>			
Chem. 132--Elem. Org. Chem. <sup>1/</sup>	3	Econ. 108--Elem. of Econ.	3		
Geol. 105--Agric. Geology	3	Mil. & P. E.	2		
Mil. & P. E.	2	Two courses from Group I	6		
Three courses from Group I	9	Electives	5 or 6		
	17		16 or 17		

Third and Fourth Years

During the third and fourth years the student must elect sufficient courses in agriculture to make a total of 50 hours in agricultural courses, including those prescribed. The student must also earn a minimum of 12 semester hours credit in humanities and social studies and sufficient unrestricted electives to bring his total credits up to the 130 hours required for graduation.

Group I.--Required agriculture courses, normally completed during the first two years:

<u>Courses</u>	<u>Hours</u>
Agr. Econ. 100--Introductory Agr. Economics <sup>2/</sup>	3
Agr. Eng. 101--Introduction to Agr. Engineering <sup>3/</sup>	3
Agronomy 121--Crop Production	4
Agronomy 201--Soils	5
An. Sci. 101--Introduction to Animal Science	3
An. Sci. or Da. Sci. 102--Feeds and Feeding	3
Da. Sci. 100--Introduction to Dairy Production	3
Hort. 100--Introductory Horticulture <sup>2/</sup>	3
Forestry 101--General Forestry, or Forestry 102-- Farm Forestry, or Horticulture elective	3
TOTAL. . . . .	30

Group II.--Humanities and social studies. Minimum of 12 semester hours to be selected from the following fields: anthropology, art, economics, foreign language, geography, history, journalism, landscape architecture, law, literature, music, philosophy, political science, psychology, religion, sociology, or speech.

- <sup>1/</sup> Students who plan to take advanced chemistry (such as biochemistry) should take Chem. 101 or 102, 105, and 133 instead of Chem. 111 and 132.
- <sup>2/</sup> Students entering as juniors or seniors should substitute (a) Agr. Econ. 220 or 230 for Agr. Econ. 100; (b) Hort. 242 or 262 for Hort. 100.
- <sup>3/</sup> Agr. Eng. 111 and 112 may be substituted for Agr. Eng. 101.



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DEPARTMENT OF CHEMISTRY

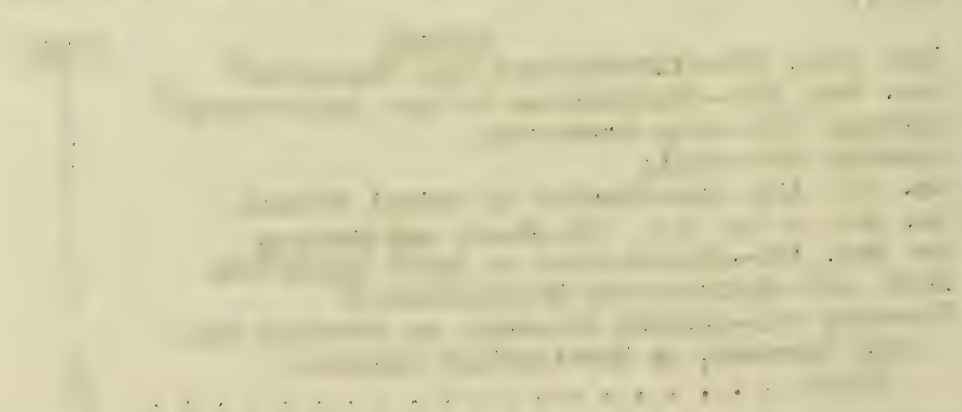
REPORT ON THE RESEARCH WORK OF THE  
LABORATORY OF PHYSICAL CHEMISTRY  
DURING THE YEAR 1924

BY  
J. H. VAN NISSEN

No.	Title of Paper	Author	Date
1	The effect of temperature on the rate of reaction of hydrogen peroxide with ferrous sulfate	J. H. Van Nissen	Jan. 15, 1924
2	The effect of concentration on the rate of reaction of hydrogen peroxide with ferrous sulfate	J. H. Van Nissen	Jan. 22, 1924
3	The effect of pH on the rate of reaction of hydrogen peroxide with ferrous sulfate	J. H. Van Nissen	Jan. 29, 1924
4	The effect of ionic strength on the rate of reaction of hydrogen peroxide with ferrous sulfate	J. H. Van Nissen	Feb. 5, 1924
5	The effect of catalyst on the rate of reaction of hydrogen peroxide with ferrous sulfate	J. H. Van Nissen	Feb. 12, 1924
6	The effect of solvent on the rate of reaction of hydrogen peroxide with ferrous sulfate	J. H. Van Nissen	Feb. 19, 1924
7	The effect of pressure on the rate of reaction of hydrogen peroxide with ferrous sulfate	J. H. Van Nissen	Feb. 26, 1924

CONCLUSIONS

The results of the above experiments show that the rate of reaction of hydrogen peroxide with ferrous sulfate is affected by temperature, concentration, pH, ionic strength, catalyst, solvent, and pressure. The rate of reaction increases with increasing temperature, concentration, and pressure, and decreases with increasing pH and ionic strength. The rate of reaction is also affected by the presence of catalyst and solvent.



These results are in agreement with the theory of reaction rates, which predicts that the rate of reaction increases with increasing temperature. The effect of concentration, pH, ionic strength, catalyst, solvent, and pressure on the rate of reaction is also in agreement with the theory of reaction rates. The rate of reaction is also affected by the presence of catalyst and solvent.

COLLEGE OF AGRICULTURE  
Office of Associate Dean

Name \_\_\_\_\_

Date \_\_\_\_\_

**CURRICULUM IN GENERAL AGRICULTURE**--For the degree, Bachelor of Science in Agriculture. For students in fields not requiring an intensive science foundation, such as farming, agricultural extension, agricultural journalism, agricultural marketing, animal and poultry science, dairy production, farm crops, farm management, farm mechanization, pomology, rural group leadership, soil conservation, vegetable production, and others.

AGRICULTURE PRESCRIBED--These courses should be completed before the junior year or as soon thereafter as possible			AGRICULTURE ELECTIVES--The total of agr. prescribed and agr. elective courses must equal at least 50 hours		
	Credit	Grade		Credit	Grade
Agr. Econ. 100	3				Earned:
Agr. Eng. 101	3				
Agronomy 121	4				To be
Agronomy 201	5				earned:
An. Sci. 101	3				A TRANSFER
An. Sci. 102 or					STUDENT
Da. Sci. 102	3				MUST EARN
Da. Sci. 100	3				AT LEAST
Hort. 100	3				$\frac{1}{2}$ OF HIS
Forestry 101 or 102 or					AGR.HOURS IN
Hort. elective	3				RESIDENCE
Total Hours	30				AT THE UNIV.
					OF ILLINOIS
NON-AGRICULTURE PRESCRIBED:			HUMANITIES AND SOCIAL STUDIES--Minimum of 12 hrs. from: anthro., art, econ., for. lang., geog., hist., journ., land. arch., law, lit., music, phil., pol. sci., psych., religion, soc., and speech.		
Botany 100	4			Credit	Grade
Chem. 101, 102, or 111	3-5				
Chemistry 132	3				Earned:
Economics 108	3				
Geology 105	3				To be
Hygiene	2				earned:
Rhetoric 101	3				
Rhetoric 102	3				
			OPEN ELECTIVES:		
					TOTAL HOURS
Zoology 104	4				
Military	1				
Military	1				
Military	1				
Military	1				
P. E.	1				
P. E.	1				
P. E.	1				
P. E.	1				

130 hours, inclusive of regular military and P. E., are required for the degree as outlined above. A minimum average of 3.0 is required for graduation. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at U. of I. and a combined average of 3.0 for transfer and University of Illinois work.



The following is a list of the names of the persons who have been appointed to the various committees of the Board of Directors of the City of New York, for the year 1901.

Committee		Members	
Board of Education	Chairman	John W. Aldrich	President
	Members	John W. Aldrich	President
	Members	John W. Aldrich	President
	Members	John W. Aldrich	President
	Members	John W. Aldrich	President
	Members	John W. Aldrich	President
	Members	John W. Aldrich	President
	Members	John W. Aldrich	President
	Members	John W. Aldrich	President
	Members	John W. Aldrich	President
Board of Health	Chairman	John W. Aldrich	President
	Members	John W. Aldrich	President
	Members	John W. Aldrich	President
	Members	John W. Aldrich	President
	Members	John W. Aldrich	President
	Members	John W. Aldrich	President
	Members	John W. Aldrich	President
	Members	John W. Aldrich	President
	Members	John W. Aldrich	President
	Members	John W. Aldrich	President
Board of Fire Commissioners	Chairman	John W. Aldrich	President
	Members	John W. Aldrich	President
	Members	John W. Aldrich	President
	Members	John W. Aldrich	President
	Members	John W. Aldrich	President
	Members	John W. Aldrich	President
	Members	John W. Aldrich	President
	Members	John W. Aldrich	President
	Members	John W. Aldrich	President
	Members	John W. Aldrich	President
Board of Police Commissioners	Chairman	John W. Aldrich	President
	Members	John W. Aldrich	President
	Members	John W. Aldrich	President
	Members	John W. Aldrich	President
	Members	John W. Aldrich	President
	Members	John W. Aldrich	President
	Members	John W. Aldrich	President
	Members	John W. Aldrich	President
	Members	John W. Aldrich	President
	Members	John W. Aldrich	President

## SUGGESTED MAJORS FOR STUDENTS IN GENERAL AGRICULTURE CURRICULUM

Agricultural Extension Major: For students interested in county extension work as farm advisers. New graduates start as assistant farm advisers or assistant youth advisers and may qualify for a farm adviser position after five years of experience.

First and Second Years: Follow the general agriculture curriculum, except that Agricultural Engineering 111 and 112 should be substituted for Agricultural Engineering 101. Rural Sociology 117 and Speech 101 should also be taken during the second year.

### Third Year:

### Hours

Agricultural Economics 220--Farm Management (I, II)	3
Agricultural Economics 230--Mktg. Agr. Products (I, II)	3
Agricultural Economics 273--Rural Recreation (II)	2
Agriculture 114--Agricultural Journalism (I, II)	3
Agriculture 206--Agricultural Extension (II)	3
Agronomy 201--Soils (I, II)	5
DGS 171--Psychology for General Education (I, II)	4
Entomology 101--Agricultural Entomology (I, II)	3
Horticulture 125--Ornamental Gardening (I)	2
Political Science 150--American Government or History 152--American History (I, II)	3
Rhetoric 151--Business Letter Writing (I, II)	3

### Summer Following Third Year:

Agriculture 208--Agricultural Extension--Summer Training (three months' employment as extension trainee)	2
---	---

### Fourth Year:

Agricultural Economics 325--Advanced Farm Management (I)	3
Agriculture 214--Advanced Agricultural Journalism (II)	3
Animal Science 105--Animal Hygiene (I)	3
Rural Sociology 377--Rural Community: Organization and Analysis (I)	3
Electives <sup>1/</sup>	22-24

### <sup>1/</sup> Suggested Electives

#### Agriculture Courses:

Agricultural Economics 302--Financing Agriculture (II)	3
Agricultural Economics 303--Agricultural Law (I, II)	3
Agricultural Economics 324--Farm Operations (II)	3
Agricultural Economics 341--Agricultural Statistics (I)	3
or Agriculture 216--Experimental & Biological Statistics (I, II)	3
Agronomy 306--Fertilizers and Their Soil Reactions (I)	3
Agronomy 322--Forage Crops and Pastures (II)	3
Agronomy 326--Weeds and Their Control (I)	3



RESEARCH REPORT ON THE EFFECTS OF THE 1960-1961 DROUGHT

The following table shows the effects of the drought on the various crops in the district. The figures are given in thousands of tons. The figures are based on the best available information and are subject to revision as more information becomes available.

The following table shows the effects of the drought on the various crops in the district. The figures are given in thousands of tons. The figures are based on the best available information and are subject to revision as more information becomes available.

TABLE 1

Crop	1960-1961	1961-1962	1962-1963
Wheat	100	120	150
Barley	80	100	120
Oats	60	80	100
Rye	40	60	80
Maize	20	40	60
Sorghum	10	20	40
Millet	5	10	20
Groundnuts	3	5	10
Peas	2	3	5
Beans	1	2	3
Lentils	1	1	2
Other	1	1	1

TABLE 2

The following table shows the effects of the drought on the various crops in the district. The figures are given in thousands of tons. The figures are based on the best available information and are subject to revision as more information becomes available.

TABLE 3

The following table shows the effects of the drought on the various crops in the district. The figures are given in thousands of tons. The figures are based on the best available information and are subject to revision as more information becomes available.

TABLE 4

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The following table shows the effects of the drought on the various crops in the district. The figures are given in thousands of tons. The figures are based on the best available information and are subject to revision as more information becomes available.

Animal Nutrition 301--Introduction to Animal Nutrition (II)	3
Animal Science 110 (same as Agronomy, Dairy Science, and Horticulture 110)--Plant and Animal Genetics (I, II)	3
Animal Science 201--Livestock Management (I)	3
or one or more of the following:	
Animal Science 301--Beef Production (I, II)	3
Animal Science 302--Sheep Production (II)	3
Animal Science 303--Pork Production (I, II)	3
Animal Science 304--Poultry Mangement (II)	3 or 4
Dairy Science 205--Dairy Cattle Management (I)	3

#### Other Courses:

Education 211--Educational Psychology (I, II)	3
Management 248--Personnel Administration (I, II)	3
Political Science 361--Introduction to Public Administration (I)	3
Speech 113--Group Discussion and Conference Leadership (I, II)	3





## SUGGESTED MAJORS FOR STUDENTS IN GENERAL AGRICULTURE CURRICULUM

Agricultural Journalism Major: For students who are interested in positions in the farm magazine field, farm radio or television, advertising, sales, public relations, college editorial work and other fields requiring training in both agriculture and journalism. Two options are available:

- I. Bachelor of Science in Agriculture with a minor in Journalism.
- II. Bachelor of Science in Journalism with a minor in Agriculture.

Students who desire to follow either option of the combined agriculture-journalism program should consult with the Associate Dean of Agriculture or the Director of the School of Journalism as early as possible and be assigned to an appropriate adviser.

Option I. For the Bachelor of Science in Agriculture with a minor in Journalism, the student will enroll in the College of Agriculture, general agriculture curriculum, and complete all requirements of that curriculum. In addition to the prescribed courses of the curriculum, he must also complete the following courses:

	<u>Hours</u>
Agriculture 114--(Same as Journ. 114) Agricultural Journalism (I, II)	3
Journalism 204--Typography (I, II)	2
Journalism 211--Reporting (I, II)	3
Journalism 321--Copyreading (I, II)	4
Electives in Journalism	8
TOTAL	<u>20</u>

The journalism electives are to be chosen from the following courses: Journ. 214 (also Agric. 214), 223, 227, 261, 281, 282, 323, 328, 351, 365, and 382.

All of the courses taken in journalism may be counted as humanities and social studies or as open electives in the general agriculture curriculum. Students following this option complete all four years while enrolled in the College of Agriculture.

Option II. For the Bachelor of Science in Journalism with a minor in Agriculture, the student may take his first two years of work in the College of Agriculture or in the College of Liberal Arts and Sciences. In this option, the student must complete a minimum of twenty semester hours in agriculture courses as follows:

<u>Required Agriculture Courses:</u>	<u>Hours</u>
Agronomy 121--Crop Production (I, II)	4
Animal Science or Da. Sci. 102--Feeds and Feeding (I, II)	3
Agricultural Economics 220--Farm Management (I, II)	3
Approved Electives in Agriculture	10
TOTAL	<u>20</u>



THE HISTORY OF THE UNITED STATES OF AMERICA

The history of the United States of America is a story of the growth of a nation from a collection of small, isolated colonies to a great, unified power. It is a story of the struggles of the people to establish a government that would protect their rights and promote their welfare. It is a story of the triumphs of the American spirit and the sacrifices of the American people.

- 1. The discovery of America by Christopher Columbus in 1492.
- 2. The establishment of the first colonies in the 17th century.
- 3. The American Revolution and the founding of the United States in 1776.
- 4. The expansion of the United States across the continent.
- 5. The Civil War and the Reconstruction era.
- 6. The rise of the United States as a world power in the 20th century.

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These twenty hours may be substituted for the twenty hours of advanced social studies required for graduation by the School of Journalism. The agricultural electives are to be chosen from the following courses: Agr. Eng. 111, 112; Agr. Econ. 305; Agron. 201; An. Sci. 201, 301, 303, or 304; Da. Sci. 100; Forestry 101; Hort. 100; and Rural Sociology.

After two years of pre-journalism work in Agriculture or Liberal Arts and Sciences, the student then transfers to the School of Journalism and Communications for two years of professional training. If the first two years are taken in the College of Agriculture, the student will find it advantageous to include in his program those agriculture courses from the above listing which are open to freshmen and sophomores. The remaining agriculture requirements may be completed during the junior and senior years. Since some of the required and recommended agriculture courses have prerequisites of basic science courses (Botany 100, Chemistry 101, 102, or 111 or Geology 105), it is advisable to elect these courses during the first two years also.





## SUGGESTED MAJORS FOR STUDENTS IN GENERAL AGRICULTURE CURRICULUM

Agricultural Marketing Major: For students interested in various private and co-operative businesses and governmental agencies dealing with farm products, foods, and farm supplies.

Students who have an interest in preparing for agricultural service in foreign areas may elect courses which will aid in furthering this objective. Courses dealing with problems in foreign countries and those in foreign languages can prove helpful. Students having such interest should consult with the Associate Dean, who may suggest an adviser who can help the student select courses of geographic and subject matter interest.

Agricultural Courses:Hours

Agr. Economics 230--Marketing of Agricultural Products (I, II)	3
*Agr. Economics 331--Grain Grading and Marketing (I)	3
*Agr. Economics 332--Livestock Marketing (II)	3
*Agr. Economics 333--Marketing Horticultural Products (I)	3
*Agr. Economics 334--Marketing Dairy Products (II)	3
Agr. Economics 341--Agricultural Statistics (I)	3
Agr. Economics 342--Agricultural Prices (II)	3

Other Courses:

Accountancy 201--Fundamentals of Accounting (I, II)	3
Business Law 261--Summary of Business Law (I, II)	3
Economics 250--Money, Credit, and Banking (I, II)	3
Economics 313--Economics of Consumption (II)	3
Economics 384--Economics of Transportation (I, II)	3
Marketing 271--Salesmanship (I, II)	2
Rhetoric 151--Business Letter Writing (I, II)	3
Speech 101--Principles of Effective Speaking (I, II)	3

\* Students may wish to choose one marketing course dealing with crops and one dealing with livestock or livestock products.





## SUGGESTED MAJORS FOR STUDENTS IN GENERAL AGRICULTURE CURRICULUM

Animal or Poultry Science Major: For students who wish to prepare for work in animal production; including the Federal Civil Service Classification of Animal Husbandman or Poultry Husbandman. Students who intend to take graduate work in animal science (including animal nutrition) should register in the agricultural science curriculum.

<u>Agricultural Courses:</u>	<u>Hours</u>
Animal Science 103--Breeds and Market Classes and Grades of Livestock (I)	3
Animal Science 104--Selection and Use of Meat (I)	2
Animal Science 105--Animal Hygiene (I)	3
Animal Science 110--Plant and Animal Genetics (I, II)	3
Animal Science 201--Livestock Management (I)*	3
One or more of the following:	
Animal Science 206--Light Horses (II)	3
Animal Science 301--Beef Production (I, II)	3
Animal Science 302--Sheep Production (II)	3
Animal Science 303--Pork Production (I, II)	3
Animal Science 304--Poultry Management (II)	3 or 4
Animal Science 332--Livestock Marketing (II)	3
Animal Nutrition 301--Introduction to Animal Nutrition (II)	3
Agr. Economics 220--Farm Management (I, II)	3
Agriculture 216--Experimental and Biological Statistics (I, II)	3
Agronomy 322--Forage Crops and Pastures (II)	3

\* Students who plan to take two or more of the production courses--  
Animal Science 301, 302, or 303--should not take Animal Science 201.

Other Courses: Each student is urged to consult with his adviser for assistance in selecting additional courses in animal science or related subjects in line with his particular objective.

Introductory courses in physiology and zoology, and in mathematics prerequisite to or including statistics, are desirable preparation for graduate work in any phase of animal science or animal nutrition.

Students who plan to major or do graduate work in animal or poultry nutrition should take Chemistry 101 or 102, 105, 122, and 133 instead of Chemistry 111 and 132.





## SUGGESTED MAJORS FOR STUDENTS IN GENERAL AGRICULTURE CURRICULUM

Dairy Production Major: For students particularly interested in the field of dairy production with emphasis on the feeding, breeding, selection, and management of dairy cattle.

<u>Agricultural Courses:</u>	<u>Hours</u>
Dairy Science 104--Dairy Cattle Judging (II)	2
Dairy Science 110--Plant and Animal Genetics (I, II)	3
Dairy Science 150--General Dairy Bacteriology (II)	2
Dairy Science 151--General Dairy Bacteriology (II)	3
Dairy Science 202--Feeding Dairy Cattle (II)	3
Dairy Science 311--Problems in Dairy Farming (I)	3
Dairy Science 330--Reproduction and Artificial Insemination of Farm Animals (I)	3
Dairy Science 334--Marketing Dairy Products (II)	3
Agricultural Economics 220--Farm Management (I, II)	3
Agronomy 322--Forage Crops and Pastures (II)	3
Ani. Sci. 105 (Same as Vet. Path. and Hyg. 105)--Animal Hygiene (I)	3

Other Courses:

Each student is urged to consult with his adviser for assistance in selecting additional courses in agriculture or related subjects in line with his particular objective.



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## SUGGESTED MAJORS FOR STUDENTS IN GENERAL AGRICULTURE CURRICULUM

Farm Crops Major: For students preparing for work in crop production and/or plant breeding.

<u>Agricultural Courses:</u>	<u>Hours</u>
Agronomy 110--Plant and Animal Genetics (I, II)	3
Agronomy 302--Role of Microorganisms in Soil Fertility (I)	3
Agronomy 321--Crop Ecology (I)	3
Agronomy 322--Forage Crops and Pastures (II)	3
Agronomy 323--Improvement of Farm Crops by Breeding (I)	3
Agronomy 325--Corn Breeding (II)	3
Agronomy 326--Weeds and Their Control (I)	3
Agronomy 331--Grain Grading and Marketing (I)	3
Agronomy 327--Forage Crop Breeding (I)	3
Agriculture 216--Experimental and Biological Statistics (I, II)	3
Entomology 101--Agricultural Entomology (I, II)	3

Other Courses:

Bacteriology 104--Elementary Bacteriology (I, II)	5
Botany 130--Plant Physiology (I)	5
Botany 317--Plant Pathology (I)	3
Mathematics 111 or 112--Algebra or College Algebra (I, II)	5 or 3
Speech 101--Principles of Effective Speaking (I, II)	3

Soil Conservation Major: For students preparing for work in soil conservation, including Federal Civil Service positions designated as Agronomist, Soil Scientist, and Soil Technologist.

<u>Agricultural Courses:</u>	<u>Hours</u>
Agronomy 301--Soil Survey, with Emphasis on Illinois Soils (II)	3
Agronomy 302--Role of Microorganisms in Soil Fertility (I)	3
Agronomy 306--Fertilizers and Their Soil Reactions (I)	3
Agronomy 307--Principles of Soil Conservation (II)	3
Agronomy 321--Crop Ecology (I)	3
Agronomy 322--Forage Crops and Pastures (II)	3
Agronomy 326--Weeds and Their Control (I)	3
Agriculture 216--Experimental and Biological Statistics (I, II)	3
Agr. Economics 220--Farm Management (I, II)	3
Agr. Economics 325--Advanced Farm Management (I)	3
Agr. Engineering 252--Mechanics of Soil and Water Conservation (II)	3
Animal Science 201--Livestock Management (I)	3
Dairy Science 311--Problems in Dairy Farming (I)	3
Entomology 101--Agricultural Entomology (I, II)	3
Forestry 102--Farm Forestry (I, II)	3

Other Courses:

Bacteriology 104--Elementary Bacteriology (I, II)	5
Botany 130--Plant Physiology (I)	5
Speech 101--Principles of Effective Speaking (I, II)	3





## SUGGESTED MAJORS FOR STUDENTS IN GENERAL AGRICULTURE CURRICULUM

Farm Management and Farm Finance Major: For students interested in preparing for work in the farm management and farm credit fields. Students should select courses from the following list in line with their particular interests and in consultation with their faculty advisers.

<u>Agricultural Courses:</u>	<u>Hours</u>
Agr. Economics 220--Farm Management (I, II)	3
Agr. Economics 230--Marketing of Agricultural Products (I, II)	3
Agr. Economics 302--Financing Agriculture (II)	3
Agr. Economics 303--Agricultural Law (I, II)	3
Agr. Economics 312--Farm Appraisals (II)	5
Agr. Economics 324--Farm Operation (II)	3
Agr. Economics 325--Advanced Farm Management (I)	3
Agr. Economics 342--Agricultural Prices (II)	3
Agr. Engineering 252--Mechanics of Soil and Water Conservation (II)	3
Agr. Engineering 272--Farm Buildings (II)	3
Agronomy 301--Soil Survey, with Emphasis on Illinois Soils (II)	3
Agronomy 306--Fertilizers and Their Soil Reactions (I)	3
Animal Science--A minimum of two courses from Animal Science 301, 302, 303, and 304	6
Dairy Science 311--Problems in Dairy Farming (I)	3
Rural Sociology 117--Introduction to Rural Sociology (I, II)	3

Other Courses:

Accountancy 201--Fundamentals of Accounting (I, II)	3
Entomology 101--Agricultural Entomology (I, II) <u>or</u>	3
Entomology 103--Life of Insects (I, II)	4

Students in this field should consider a course in statistics, Agr. Economics 341 or Economics 170, and Rhetoric 151. Those planning to enter professional farm management should include Economics 250 and Psychology 100. Those planning to enter graduate work should include two courses in economics (College of Commerce), for which a course in principles of economics is a prerequisite, and courses in college algebra and trigonometry.





## SUGGESTED MAJORS FOR STUDENTS IN GENERAL AGRICULTURE CURRICULUM

Mechanization Major: For students who wish to obtain a group of courses in structures, conservation, and machinery and power, in preparation for work with either service organizations, retail dealers, power suppliers, contractors, farm management companies, or as farmers.

Agricultural Courses:Hours

Agr. Engineering 131--Field and Power-Driven Machinery (I)	3
Agr. Engineering 142--Gas Engines and Tractors (II)	3
Agr. Engineering 241--Electric Power for the Farm (I)	3
Agr. Engineering 242--Gasoline, Liquid Petroleum Gas, and Diesel Tractors (I)	3
Agr. Engineering 252--Mechanics of Soil and Water Conservation (II)	3
Agr. Engineering 272--Farm Buildings (II)	3
Agr. Engineering 331--Function, Application, Adjustment and Management of Farm Machinery (S)	3
Agr. Engineering 393--Special Problems (I, II)	3
Agr. Economics 220--Farm Management (I, II)	3
Agr. Economics 302--Financing Agriculture (II)	3
Agr. Economics 303--Agricultural Law (I, II)	3
Agr. Economics 312--Farm Appraisals (II)	5
Agr. Economics 324--Farm Operation (II)	3
Agronomy 305--Laboratory in Soil Physics (I)	3
Agronomy 307--Principles of Soil Conservation (II)	3

Other Courses:

Accountancy 201--Fundamentals of Accounting (I, II)	3
Rhetoric 151--Business Letter Writing (I, II)	3
Rhetoric 271--Sales Writing (I, II)	2
Business Law 261--Summary of Business Law (I, II)	3
Economics 254--Business Finance (I, II)	3
Marketing 101--Principles of Marketing (I, II)	3
Marketing 211--Principles of Retailing (I, II)	3
Marketing 212--Retail Sales Promotion (I, II)	2
Marketing 271--Salesmanship (I, II)	2
Mathematics 111 or 112--Algebra or College Algebra (I, II)	5 or 3
Mathematics 114--Plane Trigonometry (I, II)	2
Philosophy 102--Logic (I, II)	3
Speech 101--Principles of Effective Speaking (I, II)	3
Speech 111--Business and Professional Speaking (I, II)	2





## SUGGESTED MAJORS FOR STUDENTS IN GENERAL AGRICULTURE CURRICULUM

Rural Group Leadership Major: For students preparing for work in extension, 4-H and other rural youth work, ministry, social welfare, recreation, library, foreign service,<sup>1/</sup> etc. Selection of courses in consultation with the adviser should be made to fit the particular interest of the student.

Suggested Agricultural Courses:Hours

Agr. Economics 201--Economic Relationships of Agriculture or Agr. Economics 211--Agricultural Economics of Latin-American Countries (I)	3
Agr. Economics 218--Land Economics (II)	3
Agr. Economics 273--Recreation in Rural Areas (II)	2
Agr. Economics 303--Agricultural Law (I, II)	3
Agr. Economics 305--Agricultural Development and Policies (I)	3
Agr. Economics 312--Farm Appraisals (II)	5
Agr. Economics 324--Farm Operation (II)	3
Agr. Economics 341--Agricultural Statistics (I) <sup>2/</sup>	3
Agr. Engineering 241--Electric Power for the Farm (I)	3
Agr. Engineering 252--Mechanics of Soil and Water Conservation (II)	3
Agr. Engineering 361--Development and Function of Family Housing (II)	3
Agriculture 206--Agricultural Extension (II)	3
Agriculture 214--Advanced Agricultural Journalism (II)	3
Agronomy 306--Fertilizers and Their Soil Reactions (I)	3
Agronomy 307--Principles of Soil Conservation (II)	3
Rural Sociology 117--Introduction to Rural Sociology (I, II)	3
Rural Sociology 277--Rural Social Problems (II), or Rural Sociology 297--Farmer Movements, Farmers' Organizations and Social Policy (I)	3
Rural Sociology 317--Structure and Function of Rural Society in America (I), or Rural Sociology 377--Rural Community: Organization and Analysis (I)	3

Other Courses:

Anthropology 103--Introduction to Anthropology (I, II)	3
Economics 170--Elements of Statistics (I, II) <sup>2/</sup>	3
Philosophy 101--Introduction to Philosophy (I, II)	3
Philosophy 103--Ethics and Social Policy (I)	4
Political Science 150--American Government: Organization and Powers (I, II)	3
Political Science 191--Principles of Political Science (I, II), or Political Science 192--Current Problems of Government (I, II)	4
Psychology 103--Human Behavior (I, II)	4
Psychology 255--Social Psychology (I, II)	3
Sociology 212--Culture Patterns and the Individual (I, II)	3
Sociology 225--Racial and Cultural Minorities (I, II)	3
Sociology 270--Population and Human Ecology (I or II)	3

<sup>1/</sup> A student who expects to work in a foreign country should take an appropriate foreign language (French, Spanish, German, etc.)

<sup>2/</sup> It is recommended that students choose between Agr. Econ. 341 and Econ. 170.



## SUGGESTED MAJORS FOR STUDENTS IN GENERAL AGRICULTURE CURRICULUM

Pomology Major: For students preparing for work in fruit production and marketing.

<u>Agricultural Courses:</u>	<u>Hours</u>
Entomology 101--Agricultural Entomology (I, II)	3
Horticulture 262--Tree and Small Fruit Culture (I)	3
Horticulture 307--Fruit Diseases (II)	3
Plant Pathology 317--Plant Pathology (I)	4
Horticulture 333--Marketing Horticultural Products (I)	3
Horticulture 363--Advanced Pomology (I, alternate years)	4
Horticulture 367--Morphological, Anatomical, and Physiological Characteristics of Fruits (I, alternate years)	3
Horticulture 382--Improvement of Horticultural Crops by Breeding (II, alternate years)	3

Other Courses:

Bacteriology 104--Elementary Bacteriology (I, II)	5
Botany 130--Plant Physiology (I)	5
Entomology 319--Chemical Control of Insects (II)	4

Vegetable Crops Major: For students preparing for work in vegetable crop production or marketing.

<u>Agricultural Courses:</u>	<u>Hours</u>
Agronomy 323--Improvement of Farm Crops by Breeding (I)	3
Entomology 101--Agricultural Entomology (I, II)	3
Horticulture 242--Vegetable Crops Production (II)	3
Horticulture 308--Vegetable and Canning Crops Diseases (I, alternate years)	3
Plant Pathology 317--Plant Pathology (I)	4
Horticulture 333--Marketing Horticultural Products (I)	3
Horticulture 345--Growth and Development of Vegetable Crops (I, alternate years)	4
Horticulture 382--Improvement of Horticultural Crops by Breeding (II, alternate years)	3

Other Courses:

Bacteriology 104--Elementary Bacteriology (I, II)	5
Botany 130--Plant Physiology (I)	5



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General Agriculture Curriculum with Major for Teachers of Vocational  
Agriculture (for the degree, Bachelor of Science in Agriculture)

First Year

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Bot. 100-General Botany	4	Chem. 101, 102 or 111-General Chemistry	3-5
Hygiene 101-Health Lect., or Hygiene 104-Pers. & Comm. Hygiene	2	Rhetoric 102-Rhet. & Comp.	3
Rhetoric 101-Rhet. & Comp.	3	Zoology 104-Elem. Zoology	4
Physical Education	1	Physical Education	1
Military (men)	1	Military (men)	1
Two courses from Group I	6	One course from Group I	3 or 4
Total	17	Total	15 or 18

Second Year

Agr. Eng. 111-Farm Structures and Soil and Water Conservation, or 112-Tractors and Field Machinery	3	Agr. Eng. 112-Tractors and Field Machinery, or 111-Farm Struc- tures and Soil and Water Con- servation	3
Educ. 101-The Nature of the Teach- ing Profession	2	Chem. 132-Elem. Org. Chem.	3
Geol. 105-Agricultural Geol.	3	Econ. 108-Elem. of Economics	3
Physical Education	1	Physical Education	1
Military (men)	1	Military (men)	1
Two courses from Group I	6	Two courses from Group I	6
Total	16	Total	17

Third Year

Agron. 201-Soils	5	Agr. Econ. 220-Farm Mgmt.	3
Psych. 100-Intro. to Psych.	4	Educ. 201-Found. of Am. Educ.	2
Speech 101-Prin. of Effective Speaking	3	Educ. 240-Prin. of Sec. Educ.	2
Agricultural Electives	3 to 6	Hist. 152-History of U. S.	3
Total	15 to 18	Agricultural Electives	6
		Total	16

Fourth Year

Semesters interchangeable. Courses taken with practice teaching will be offered during a ten-week period.

Agr. Educ. 276-Pract. in Agr. Ed.	5	Pol. Sci. 150-American Govt.	3
Agr. Educ. 277-Programs & Pro- cedures in Agr. Education	5	Electives (including 2 hours of humanities) <sup>2/</sup>	11 to 17
Agr. Eng. 201-Farm Shop Work, or Da. Sci. 204-Dairy Production <sup>1/</sup> or other Agr. Elective	2 or 3		
Educ. 211-Educ. Psych.	3		
Total	15 or 16	Total	14 to 20

Total hours credit required for the B. S. degree. . . . .130

<sup>1/</sup> Da. Sci. 204 offered second semester only.

<sup>2/</sup> A total of six hours of humanities is necessary for certification.

1. The first step in the process of the development of the human mind is the acquisition of language. This is a process that begins at birth and continues throughout life. The child learns to use language to communicate with others and to express their own thoughts and feelings. This is a fundamental skill that is essential for the child's development and for their ability to interact with the world around them.

## 2. The second step is the acquisition of social skills. The child learns to interact with others in a socially appropriate manner. This involves learning to share, to take turns, and to understand the feelings of others. These skills are essential for the child's ability to form healthy relationships with others and to function effectively in society.

3. The third step is the acquisition of academic skills. The child learns to read, to write, and to do basic arithmetic. These skills are essential for the child's ability to succeed in school and to pursue higher education. The child also learns to think critically and to solve problems, which are essential skills for the modern world.

4. The fourth step is the acquisition of personal skills. The child learns to manage their emotions, to set goals, and to take responsibility for their actions. These skills are essential for the child's ability to lead a successful and fulfilling life. The child also learns to be self-reliant and to have confidence in their own abilities.

5. The fifth step is the acquisition of professional skills. The child learns to work in a team, to follow instructions, and to meet deadlines. These skills are essential for the child's ability to succeed in the workplace and to pursue a career. The child also learns to be punctual, to be organized, and to have a strong work ethic.

6. The sixth step is the acquisition of life skills. The child learns to manage their finances, to cook, to clean, and to take care of themselves. These skills are essential for the child's ability to live independently and to take care of themselves and others. The child also learns to be responsible and to have a strong sense of community.

7. The seventh step is the acquisition of creative skills. The child learns to think creatively, to solve problems, and to express their ideas. These skills are essential for the child's ability to succeed in the arts and in the sciences. The child also learns to be curious and to have a strong sense of wonder.

8. The eighth step is the acquisition of leadership skills. The child learns to take initiative, to inspire others, and to lead a team. These skills are essential for the child's ability to succeed in the business world and in the community. The child also learns to be confident and to have a strong sense of purpose.

9. The ninth step is the acquisition of global skills. The child learns to understand the world and to appreciate the diversity of cultures. These skills are essential for the child's ability to succeed in the global economy and to be a responsible citizen of the world. The child also learns to be open-minded and to have a strong sense of empathy.

## 10. The tenth step is the acquisition of spiritual skills. The child learns to understand their own beliefs and to practice their faith. These skills are essential for the child's ability to find meaning and purpose in life. The child also learns to be compassionate and to have a strong sense of spirituality.

11. The eleventh step is the acquisition of emotional skills. The child learns to manage their emotions and to understand the feelings of others. These skills are essential for the child's ability to form healthy relationships and to lead a fulfilling life. The child also learns to be self-aware and to have a strong sense of emotional intelligence.

12. The twelfth step is the acquisition of physical skills. The child learns to exercise, to eat healthy, and to take care of their body. These skills are essential for the child's ability to stay healthy and to live a long life. The child also learns to be active and to have a strong sense of physical fitness.

## 13. The thirteenth step is the acquisition of intellectual skills. The child learns to think critically, to solve problems, and to learn from experience. These skills are essential for the child's ability to succeed in school and in the workplace. The child also learns to be curious and to have a strong sense of intellectual curiosity.

14. The fourteenth step is the acquisition of artistic skills. The child learns to draw, to paint, to dance, and to play music. These skills are essential for the child's ability to express their creativity and to enjoy the arts. The child also learns to be imaginative and to have a strong sense of artistic appreciation.

15. The fifteenth step is the acquisition of technological skills. The child learns to use computers, to use the internet, and to use other technologies. These skills are essential for the child's ability to succeed in the digital age and to be a responsible citizen of the 21st century. The child also learns to be tech-savvy and to have a strong sense of digital literacy.

## 16. The sixteenth step is the acquisition of environmental skills. The child learns to understand the environment and to take care of it. These skills are essential for the child's ability to live sustainably and to be a responsible citizen of the planet. The child also learns to be eco-friendly and to have a strong sense of environmental awareness.

17. The seventeenth step is the acquisition of civic skills. The child learns to understand their rights and responsibilities as a citizen. These skills are essential for the child's ability to participate in the democratic process and to be an active member of the community. The child also learns to be informed and to have a strong sense of civic duty.

18. The eighteenth step is the acquisition of entrepreneurial skills. The child learns to identify opportunities, to create value, and to manage a business. These skills are essential for the child's ability to succeed in the business world and to be a responsible entrepreneur. The child also learns to be innovative and to have a strong sense of business acumen.

19. The nineteenth step is the acquisition of research skills. The child learns to gather information, to analyze data, and to draw conclusions. These skills are essential for the child's ability to succeed in the sciences and in the humanities. The child also learns to be curious and to have a strong sense of research interest.

20. The twentieth step is the acquisition of communication skills. The child learns to listen, to speak, and to write effectively. These skills are essential for the child's ability to communicate with others and to succeed in all areas of life. The child also learns to be clear and to have a strong sense of communication skills.

21. The twenty-first step is the acquisition of problem-solving skills. The child learns to identify problems, to generate solutions, and to implement them. These skills are essential for the child's ability to overcome challenges and to succeed in life. The child also learns to be resilient and to have a strong sense of problem-solving skills.

22. The twenty-second step is the acquisition of decision-making skills. The child learns to weigh options, to make choices, and to take responsibility for the consequences. These skills are essential for the child's ability to lead a successful life and to be a responsible decision-maker. The child also learns to be confident and to have a strong sense of decision-making skills.

23. The twenty-third step is the acquisition of time-management skills. The child learns to prioritize tasks, to manage their time, and to meet deadlines. These skills are essential for the child's ability to be productive and to succeed in all areas of life. The child also learns to be organized and to have a strong sense of time-management skills.



Group 1--Courses in agriculture required of all students in the General Agriculture, Teacher Training Curriculum.

<u>Courses</u>	<u>Hours</u>
Agr. Econ. 100--Introductory Agr. Economics <sup>1/</sup>	3
Agronomy 121--Crop Production	4
An. Sci. 101--Introduction to Animal Science	3
An. Sci. or Da. Sci. 102--Feeds and Feeding	3
Da. Sci. 100--Introduction to Dairy Prod.	3
Horticulture 100--Introductory Horticulture <sup>1/</sup>	3
Forestry 101--General Forestry, or Forestry 102-- Farm Forestry, or Hort. elective	3
Total	22

Fifth Year

(for the degree, Master of Science in Agricultural Education)

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
Agricultural Courses With Graduate Credit	2	Agricultural Courses With Graduate Credit	2
Educ. 311--Psych. of Learning for Teachers	1/2	Two of the following courses:	
Educ. 312--Mental Hygiene and the School	1/2	Educ. 301--Philos. of Educ.	1/2
Electives	1	Educ. 302--Hist. of Am. Educ.	1/2
		Educ. 303--Comparative Educ.	1/2
		Educ. 304--Social Foundations of Education	1/2
		Electives	1
Total	4	Total	4

This fifth-year program is open only to students who have previously met the minimum requirement for teaching vocational agriculture under the Smith-Hughes and related acts. It is planned as a fifth year for students who have completed four years of college work fully equivalent to the General Curriculum in Agriculture with Major for Teachers of Vocational Agriculture.

Teachers planning to complete the requirements for this degree while employed should note the following regulations:

1. Four of the eight required units must be in agriculture and two must be in education, and must be selected with the approval of the adviser.
2. Not more than four units may be earned extramurally; of the credits earned extramurally, no more than two can be in agriculture and no more than two can be in education.

<sup>1/</sup> Students entering as juniors or seniors should substitute Agr. Economics 230 for Agr. Economics 100 and Horticulture 242 or 262 for Horticulture 100.

1980

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### LIBRARY

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DATE	DESCRIPTION	PRICE	REMARKS
1/1/80	100 copies of "The Great Gatsby"	10.00	Gift from Mr. Smith
2/1/80	50 copies of "The Great Gatsby"	5.00	Gift from Mr. Jones
3/1/80	25 copies of "The Great Gatsby"	2.50	Gift from Mr. Brown
4/1/80	10 copies of "The Great Gatsby"	1.00	Gift from Mr. White
5/1/80	5 copies of "The Great Gatsby"	.50	Gift from Mr. Black
6/1/80	2 copies of "The Great Gatsby"	.20	Gift from Mr. Green
7/1/80	1 copy of "The Great Gatsby"	.10	Gift from Mr. Grey
8/1/80	1 copy of "The Great Gatsby"	.10	Gift from Mr. Blue
9/1/80	1 copy of "The Great Gatsby"	.10	Gift from Mr. Yellow
10/1/80	1 copy of "The Great Gatsby"	.10	Gift from Mr. Purple
11/1/80	1 copy of "The Great Gatsby"	.10	Gift from Mr. Pink
12/1/80	1 copy of "The Great Gatsby"	.10	Gift from Mr. Orange

The following is a list of the books received by the library during the year 1980. The books were received from various sources, including private individuals, bookstores, and publishers. The books are listed in chronological order of receipt.

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**CURRICULUM IN GENERAL AGRICULTURE WITH MAJOR FOR TEACHERS OF VOCATIONAL AGRICULTURE--**  
For the Degree, Bachelor of Science in Agriculture.

AGRICULTURE PRESCRIBED--These courses should be completed before the junior year or as soon thereafter as possible			AGRICULTURE ELECTIVES--The total of agr. prescribed and agr. elective courses must equal at least 50 hours			Trans. _____
	Credit	Grade		Credit	Grade	Res. _____
Agr. Econ. 100	3					Earned:
Agr. Econ. 220	3					To be earned:
Agr. Eng. 112	3					A TRANSFER STUDENT MUST EARN AT LEAST 1/2 OF HIS AGR. HOURS IN RESIDENCE AT THE UNIV. OF ILLINOIS
Agr. Eng. 111	3					
Agron. 121	4					
Agron. 201	5					
An. Sci. 101	3					
An. Sci. 102 or						
Da. Sci. 102	3					
Da. Sci. 100	3					
Hort. 100	3					
Forestry 101 or 102, or Hort. elective	3-2					
Total	35-36					
NON-AGRICULTURE PRESCRIBED:			SOCIAL STUDIES PRESCRIBED:			TOTAL HOURS EARNED:
Botany 100	4		History 152	3		
Chemistry 101, 102 or 111	5-3		Pol. Sci. 150	3		
Chemistry 132	3		HUMANITIES (Minimum of 6 hrs.)			
Economics 108	3		Psychol. 100	4		
Geology 105	3		Humanities (Art, music, lang., lit., psych., phil., religion)			
Rhetoric 101	3		EDUCATION COURSES PRESCRIBED:			
Rhetoric 102	3		Education 101	2		
Speech 101	3		Education 201	2		
Sociology 104	4		Education 211	3		
Biogeochemistry	2		Education 240	2		
Physiology	1		Agr. Educ. 276	5		
Plant Physiology	1		Agr. Educ. 277	5		
Plant Physiology	1		OPEN ELECTIVES:			
Plant Physiology	1					
Plant Physiology	1					
E. 1	1					
E. 1	1					
E. 1	1					
E. 1	1					





Agricultural Science Curriculum  
(for the degree, Bachelor of Science in Agriculture)

This curriculum is especially designed for students who plan to do graduate study in agricultural fields or for those who wish to engage in technical work requiring more science or mathematics than is included in the General Agriculture Curriculum. Students entering this curriculum as freshmen must have a scholarship rank in the upper half of their graduating class, and those entering as transfers must have a scholastic average in their collegiate work of not less than 3.5 in terms of the grading system of the University of Illinois. Once enrolled, they must maintain an average of at least 3.5 to remain in and graduate from the curriculum.

The curriculum lends itself to individualized programs of study. It presupposes careful individual planning under the supervision of a faculty adviser qualified in the student's special field of interest. For assistance in selecting a program plan and for assignment to an adviser, call at the office of the Associate Dean, 104 Mumford Hall.

Two options are provided in this curriculum:

Option I. For students desiring preparation for graduate study or technical work in animal, plant, or soil science.

Option II. For students desiring preparation for graduate study or technical work in the fields included in agricultural economics and rural sociology.

	Option I Minimum Hours	Option II Minimum Hours
General University Requirements (Hygiene, Military, Physical Education, and Rhetoric)	16	16
Group I. College of Agriculture Courses	35	35
Group II. Humanities (Art, Music, Language, Literature, Philosophy, Religion)	6	6
Group III. Social Science (Economics, Geography, History, Political Science, Psychology, Sociology)	6	16 <sup>2/</sup>
Group IV. Biological Science (Bacteriology, Botany, Entomology, Physiology, Zoology)	10 <sup>1/</sup>	6
Group V. Physical Science (Chemistry, Geology, Mathematics, Physics)	10 <sup>1/</sup>	16
Electives, Unrestricted	<u>22</u>	<u>35</u>
TOTAL required for graduation	130	130

<sup>1/</sup> All students in Option I must complete a total of 45 semester hours in Groups IV and V combined, with a minimum of 10 hours in each.

<sup>2/</sup> Students in Option II must include at least 8 semester hours in Economics.





Agricultural Science Curriculum  
Sample programs for first year

Option I

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Chem. 101 or 102-General Chemistry	5 or 3	Chem. 105-Inorganic Chem. and Qualitative Analysis, or Chemistry 106-Inorganic Chemistry	5
Hygiene 101-Health Lectures	2	Math. 114-Plane Trigonometry <sup>1/</sup>	2
Math. 111 or 112-College Algebra <sup>1/</sup>	5 or 3	Rhet. 102-Rhet. & Comp.	3
Rhet. 101-Rhet. & Comp.	3	Physical Education	1
Physical Education	1	Military (men)	1
Military (men)	1	Electives	3 to 6
Electives	0 to 5		<u>15 to 18</u>
	<u>15 to 18</u>		

Option II

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Agr. Econ. 100-Introductory Agricultural Economics	3	Botany 100-General Botany	4
Math. 111 or 112-College Algebra or Math. 114-Plane Trigonometry <sup>1/</sup>	5, 3 or 2	Math. 114-Plane Trigonometry <sup>1/</sup> or Chem. 101-General Chem. <sup>1/</sup>	2 to 5
Hygiene 101-Health Lectures	2	Rhet. 102-Rhet & Comp.	3
Rhet. 101-Rhet. & Comp.	3	Physical Education	1
Physical Education	1	Military (men)	1
Military (men)	1	Agricultural electives	3 to 4
Electives	0 to 3		<u>15 to 17</u>
	<u>15 to 18</u>		

Second, Third, and Fourth Years

The programs for the second, third, and fourth years must be planned in consultation with the student's faculty adviser.

Total required for graduation.....130

Students interested in combined programs of Agriculture and Agricultural Engineering should see pages 27-29. Those interested in combining Agriculture and Law should see pages 30-31.

<sup>1/</sup> Students who enter with 3 to 4 units of credit in high school mathematics, including trigonometry, and who pass the mathematics placement examination, may omit beginning courses in mathematics and enroll in more advanced courses, such as analytic geometry.

# THEORY OF THE EARTH

## CHAPTER I

1.1

1.2

1.3

1.4

1.5

1.6

1.7

1.8

## CHAPTER II

2.1

2.2

2.3

2.4

2.5

2.6

2.7

2.8

## APPENDIX A

1. The first part of the book is devoted to the study of the general principles of the theory of the earth.

2. The second part of the book is devoted to the study of the general principles of the theory of the earth.

3. The third part of the book is devoted to the study of the general principles of the theory of the earth.

4. The fourth part of the book is devoted to the study of the general principles of the theory of the earth.

COLLEGE OF AGRICULTURE  
Office of Associate Dean

Date \_\_\_\_\_ Name \_\_\_\_\_  
Option and field selected \_\_\_\_\_

AGRICULTURAL SCIENCE CURRICULUM--For the degree, Bachelor of Science in Agriculture.  
Option I--For students desiring preparation for graduate study or technical work in animal plant, or soil science.

Option II--For students desiring preparation for graduate study or technical work in the fields included in agricultural economics and rural sociology.

GENERAL UNIVERSITY REQUIREMENTS (16 hrs.)

	Credit	Grade	
Rhet. 101	3		GROUP III--Social Sciences (Econ., geog. hist., pol. sci., psych., soc.) Option I--Minimum of 6 hrs.; Option II--Minimum of 16 hrs.*
Rhet. 102	3		
Hygiene	2		Credit   Grade
Military	1		
Military	1		GROUP IV--Biological Sciences (Bact., bot., entom., physiol., zool.) Option I--Minimum of 10 hrs*; Option II--Minimum of 6 hrs.
Military	1		
Military	1		GROUP V--Physical Sciences (Chem., geol., math., physics) Option I--Minimum of 10 hrs*; Option II--Minimum of 16 hrs.
P. E.	1		
P. E.	1		GROUP I--College of Agriculture Courses Minimum of 35 hrs. required. A transfer student must earn at least 1/2 of his agr. hours in residence at the Univ. of Ill.
P. E.	1		
P. E.	1		GROUP II--Humanities (Art, music, lang., lit., philos., relig.) Option I--Minimum of 6 hrs.; Option II--Minimum of 6 hrs.
			Open Electives:
			Total hours earned _____

\* All students in Option I must complete a total of 45 semester hours in Groups IV and V combined, with a minimum of 10 hours in each.

Students in Option II must include at least 8 semester hours in Economics.

130 hours, inclusive of regular military and P. E., are required for the degree as outlined above. To enroll in this curriculum, entering freshmen must rank in the upper half of their high school graduating class; upperclassmen must have an average of 3.5 or higher. To remain in and graduate from this curriculum, each student must maintain an over-all average of at least 3.5.



The following table shows the results of the experiments conducted on the 10th, 11th, and 12th of the month.

Date		Time		Temperature		Humidity		Wind		Direction		Speed		Pressure		Barometer		Thermometer		Hygrometer		Anemometer		Windmill		Rain		Sun		Moon		Clouds		Fog		Thunder		Lightning		Hail		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice		Frost		Sleet		Rain		Snow		Ice	
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Agricultural Science and Agricultural Engineering Curricula  
5-Year Combined Programs  
(for the degrees, Bachelor of Science in Agriculture  
and Bachelor of Science in Agricultural Engineering)

Students interested in obtaining a Bachelor of Science degree in Agricultural Engineering may follow either one of two plans: (1) enroll in the College of Engineering and complete the four-year curriculum in agricultural engineering; (2) enroll in the College of Agriculture in either the Agricultural Science or General Agriculture Curriculum and meet the requirements prescribed, at the same time following the program outlined in the Agricultural Engineering Curriculum of the College of Engineering. By this plan, the two degrees can normally be completed in 10 semesters.

Students interested in the combined programs should enroll in the College of Agriculture for the first three years and then transfer to the College of Engineering for the fourth and fifth years. By the end of the third year, the student must choose between the "Power and Machinery Option" and the "Structures, Soil and Water Engineering Option." A semester-by-semester sequence of courses is shown on this and the following pages for combining Option I of the Agricultural Science Curriculum (see page 24) and the Agricultural Engineering Curriculum. Special attention is called to the requirement that students must rank in the upper half of their high school graduating class to enroll in the Agricultural Science Curriculum and must maintain a 3.5 average to remain in and graduate from it.

First Year  
(Enroll in College of Agriculture)

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Chem. 102 or 103-General Chem.	3 or 4	Chem. 104-Chemistry of Metallic Elements	4
G. E. 100-Engineering Lectures	0	G.E. 101-Engineering Drawing	3
Hygiene 101-Health Lectures	2	Math. 123-Analytical Geometry	5
Math. 111 or 112-Coll. Alg. <sup>1/</sup>	5 or 3	Rhet. 102-Rhetoric and Comp.	3
Math. 114-Plane Trig. <sup>1/</sup>	2	Physical Education	1
Rhet. 101-Rhetoric and Comp.	3	Military (men)	1
Physical Education	1		
Military (men)	1		
Total	15 to 18	Total	17

Second Year

Agr. Eng. 111-Farm Struc. and Soil and Water Cons.	3	Agr. Eng. 112-Tractors and Field Machinery	3
Botany 100-General Botany	4	Math. 142 or 143-Calculus	3 or 5
G.E. 102-Engineering Geometry	3	Physics 106-Mechanics	4
Math. 132 or 133-Calculus	5 or 3	Physical Education	1
Physical Education	1	Military (men)	1
Military (men)	1	Approved Elective <sup>2/</sup>	6 or 3
Total	15 to 17	Total	17 or 18

<sup>1/</sup> Those students with 4 years of high school mathematics may take Math. 123 the first semester and follow the Common Program for Freshmen in the College of Engineering.

<sup>2/</sup> See page 29 for a listing of approved electives.





Third Year

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Agronomy 121-Crop Production	4	Agr. Econ. 220-Farm Management	3
Econ. 108-Elements of Economics	3	Physics 108-Heat, Sound, Light	4
Geology 105-Agr. Geology	3	T.A.M. 156-Analytical Mechanics (Statics and Dynamics)	5
Physics 107-Electricity and Magnetism, Modern Physics	4	Approved Elective <sup>1/</sup>	3
Approved Elective <sup>1/</sup>	<u>3</u>		
Total	17	Total	15

## POWER AND MACHINERY OPTION

Fourth Year

(Student may transfer to College of Engineering)

Agr. Eng. 231-Farm Machine Char- acteristics and Mechanisms	3	Agr. Eng. 282-Electricity in Agriculture	3
E.E. 206-DC and AC Circuits	3	Agronomy 201-Soils	5
E.E. 207-DC and AC Circ. Lab.	1	M.E. 209-Thermodynamics	3
M.E. 221-Mech. of Machinery	5	M.E. 224-Design of Machine Elements	3
T.A.M. 221-Resistance of Materials	3	Approved Elective <sup>1/</sup>	3
T.A.M. 223-Resistance of Ma- terials Laboratory	<u>1</u>		
Total	16	Total	17

Fifth Year

(Latest date to transfer to College of Engineering)

Agr. Eng. 299-Inspection Trip	0	Agr. Eng. 332-Design of Agri- cultural Machinery	3
Agr. Eng. 341-Farm Power	3	Agr. Eng. 393-Special Problems	3
M.E. 182-Manufacturing Proc- esses	3	M.E. 234-Heat Treatment of Metals	3
M.E. 271-Design of Machine Elem.	3	Approved Electives <sup>1/</sup>	<u>6</u>
Approved Electives <sup>1/</sup>	<u>6 or 7</u>	Total	15
Total	15 or 16		

<sup>1/</sup> See page 29 for a listing of approved electives.

Special Note - Some major changes and revisions of the agricultural engineering courses in this curriculum are under consideration. Consult with your adviser concerning these changes and how they may affect your program.



## STRUCTURES, SOIL AND WATER ENGINEERING OPTION

Fourth Year

(Student may transfer to College of Engineering)

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Agronomy 201-Soils	5	Agri. Eng. 282-Electricity in Agriculture	3
E.E. 206-DC and AC Circuits	3	C.E. 115-General Surveying	3
E.E. 207-DC and AC Circ. Lab.	1	C.E. 235-Plain Concrete	2
T.A.M. 221-Resistance of Materials	3	C.E. 261-Structural Analysis	4
T.A.M. 223-Resistance of Materials Laboratory	1	T.A.M. 232-Fluid Mechanics	3
Approved Elective	3	T.A.M. 234-Fluid Mechanics Lab.	1
Total	16	Total	16

Fifth Year

(Latest date to transfer to College of Engineering)

Agr. Eng. 299-Inspection Trip	0	Agr. Eng. 371-Advanced Farm Structures	3
Agr. Eng. 351-Hydraulics of Soil Conservation	3	Agr. Eng. 393-Special Problems	3
C.E. 262-Structural Analysis	3	C.E. 264-Structural Design	5
C.E. 263-Elem. Struc. Design	2	Approved Electives	3 to 5
C.E. 290-Contracts & Specif.	2		
M.E. 209-Thermodynamics	3		
Approved Elective	3		
Total	16	Total	14 to 16

Approved Electives must include the following:

- (1) 6 hours biological science in addition to Botany 100 (zoology, entomology, botany, bacteriology, physiology)
- (2) 6 hours humanities (art, music, language, literature, philosophy, religion)
- (3) 3 hours social science in addition to Economics 108 (economics, geography, history, political science, psychology, sociology)
- (4) 2 hours more in agriculture in Power and Machinery Option.  
5 hours more in agriculture in Structures, Soil and Water Engineering Option.
- (5) Sufficient open electives to total 160 hours.

Special Note - Some major changes and revisions of the agricultural engineering courses in this curriculum are under consideration. Consult with your adviser concerning these changes and how they may affect your program.



# STANDARD FORM NO. 100-1000000

Continued on page 100-1000000

Item	Description	Unit	Quantity
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4	...	...	...
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6	...	...	...
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Continued on page 100-1000000

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### Six-Year Program in Agriculture and Law

A plan exists between the College of Agriculture and the College of Law by which a student may earn the degree of Bachelor of Science in Agriculture and the degree of Bachelor of Laws in six years. In this case the student must plan carefully so as to include all prescribed courses in agriculture during the first three years, after which he transfers to the College of Law for the fourth year. He can thus receive the agricultural degree at the end of the fourth year and the law degree at the end of the sixth year. This program can best be fitted into the Agricultural Science Curriculum under Option II.

The following listing of courses is intended as a guide. Other courses may be substituted in some cases for those listed here; however, completion of the courses as shown will assure that the student meets all requirements for the degree in the Agricultural Science Curriculum, Option II (see page 24). Students following this program should ask to be assigned an adviser for the six-year program in agriculture and law.

#### SUGGESTED AGRICULTURAL SCIENCE PRE-LAW CURRICULUM (for the degree, Bachelor of Science in Agriculture)

(Six semesters in agriculture--six semesters in law)

##### A. Required courses

Rhetoric	6	
Hygiene	2	
Military	4	
Physical Education	4	
		16

##### B. Suggested courses to meet requirements of 35 hours in agriculture (Group I)

Agricultural Economics 100, 220, 230, 302	12
Agricultural Engineering 111	3
Agronomy 121 and 201	9
Animal Science 101, 102	6
Dairy Science 100	3
Horticulture 100	3

(Students interested in Agricultural Economics 200--Special Problems in Agricultural Law, should consult with their adviser.)

##### C. Suggested courses to meet requirements of 44 hours from Groups II thru V (Minimum of 6 hours in Groups II and IV; minimum of 16 hours in Groups III and V)

###### Group II Courses

Philosophy 102 or 104	3 to 4
Humanities electives	2 to 3





## SUGGESTED AGRICULTURAL SCIENCE PRE-LAW CURRICULUM--Continued

## Group III Courses

Economics 108, 109, and 250 (8 hours required)	9	
Political Science 150	3	
Psychology 100	4	16

## Group IV Courses - two of the following

Zoology 104, or Botany 100, or		
Entomology 101		7 or 8

## Group V Courses

Chemistry 101 or 111, and 132		
Geology 101 or 105, and 140		
Math. Electives		
Physics 101 and 102		16

D. Suggested Electives

Speech 101	3	
Accountancy 201	3	<u>6</u>

Total hours in three years.....	103
Law courses to complete requirement for degree.....	<u>27</u>
Total Required for Degree in Agriculture.....	<u>130</u>

Note: The 103 hours would be completed during the six semesters in agriculture. Completion of at least 27 hours in law school during the fourth year would qualify the student for graduation from the College of Agriculture. To remain in and graduate from this curriculum, each student must maintain an over-all average of at least 3.5, including courses taken in the College of Law.



**DAIRY TECHNOLOGY CURRICULUM**  
(for the degree of Bachelor of Science in Dairy Technology)

The following program is designed for students interested in the business aspects of dairy manufacturing or in research or teaching in the field of dairy technology. A minimum of 130 hours of credit is required for graduation. All students specializing in dairy technology are expected to take an inspection trip in either the junior or the senior year. This trip costs about \$35.

First Year

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Chem. 101 or 102--Gen. Chem.	5-3	Accy. 201 <sup>1</sup> /--Fund. of Accounting	3
Hygiene--Health Lectures	2	Chem. 105--Inorg. Chem. and Qualitative Analysis	5
Math. 111 or 112--Col. Algebra	5-3	Da. Sci. 100--Introd. to Dairy Prod.	3
Rhet. 101--Rhetoric and Comp.	3	Rhet. 102--Rhetoric and Comp.	3
Physical Education	1	Physical Education	1
Military (men)	1	Military (men)	1
Total	<u>17-14</u>	Total	<u>16</u>

Second Year

Chem. 133--Elem. Org. Chem.	5	Bact. 104--Elem. Bact., or Da. Sci. 150 and 151--Gen. Da. Bact.	5
D. T. 101--Introd. to Da. Tech.	3	D. T. 102--Quality Evaluation of Dairy Products	3
Econ. 108--Elements of Economics	3	Speech 101--Prin. of Effective Speaking	3
Physical Education	1	Physical Education	1
Military (men)	1	Military (men)	1
Elective (Group I or II)	3	Elective (Group I or II)	3
Total	<u>16</u>	Total	<u>16</u>

Third Year

D. T. 211--Bacteriological Control of Plants	4	D. T.--311, Dairy Prod. Proc.	4
D. T. 213--Tech. Control of Dairy Products	3	Electives (Groups I and II)	12
Rhet. 151--Bus. Letter Writing	3		
Electives (Group I and II)	6		
Total	<u>16</u>	Total	<u>16</u>

Fourth Year

D. T. 311--Dairy Prod. Proc.	4	Electives	17
Electives	12		
Total	<u>16</u>	Total	<u>17</u>

<sup>1</sup>/ Students interested in business management should take Accy. 101 and 105.





## DAIRY TECHNOLOGY CURRICULUM--Continued

Group I electives: A minimum of 15 hours, at least 6 of which must be in courses above the 100 level, to be selected from science (bacteriology, chemistry, mathematics, and physics) or commerce (accountancy, business law, economics<sup>1/</sup>, management, and marketing).

Group II electives: A minimum of nine hours in humanities and social studies, to be selected from anthropology, art, economics<sup>1/</sup>, foreign language, geography, history, journalism, landscape architecture, law, literature, music, philosophy, political science, psychology, religion, sociology, or speech.

Electives in the third and fourth years, with assistance from an adviser, can provide a background in general business training, a special knowledge of some business field, or a basis for graduate work in preparation for research.

<sup>1/</sup> Students who select economics courses in fulfillment of Group I or II may not count the same course in both groups.





CURRICULUM IN DAIRY TECHNOLOGY  
(for degree of B.S. in Dairy Technology)

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_

DATE \_\_\_\_\_

PRESCRIBED COURSES	CREDIT	GRADE	Group I--A minimum of 15 hours is required from science (bact., chem., math., and physics or commerce (accy., bus. law, econ. <sup>2/</sup> , mgmt., and mktg.). At least 6 of the 15 hours must be above the 100 level.			
Accy. 201 or Accy. 101 and 105 <sup>1/</sup>	3 3-3			CREDIT	GRADE	EARNED
Bact. 104 or Da. Sci. 150 and 151	5 2-3					
Chem. 101 or 102	5-3					TO BE EARNED
Chem. 105	5					
Chem. 133	5					
Da. Sci. 100	3					
Da. Tech. 101	3					
Da. Tech. 102	3					
Da. Tech. 211	4					
Da. Tech. 213	3					
Da. Tech. 310	4					
Da. Tech. 311	4					
Econ. 108	3					
Math. 111 or 112	5-3					
Hygiene	2					TO BE EARNED
Rhet. 101	3					
Rhet. 102	3					
			OPEN ELECTIVES			
Rhet. 151	3					
Speech 101	3					
Military	1					
Military	1					
Military	1					
Military	1					
P.E.	1					
P.E.	1					
P.E.	1					
P.E.	1					
						TOTAL HR

130 hours, inclusive of regular military and physical education, are required for the degree as outlined above. A minimum average of 3.0 is required for graduation. Effective Aug. 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at the U. of I. and a combined average of 3.0 for transfer and U. of I. work.

<sup>1/</sup> Students interested in business management should take Accy. 101 and 105.

<sup>2/</sup> Students who select economics courses in fulfillment of Group I or II may not count the same course in both groups.



**FLORICULTURE CURRICULUM**  
(for the degree of Bachelor of Science in Floriculture)

This curriculum is for students preparing to grow and sell flowers and other ornamental plants or to do teaching and research in this field. Students registered in floriculture are required to make at least one inspection trip before graduation. The trip costs about \$30. Students contemplating graduate work in floriculture should register for the Chemistry 101 (102), Chemistry 105 and Chemistry 133 sequence, rather than the Chemistry 101 (102) or 111 and Chemistry 132 sequence. A minimum of 130 hours of credit is required for graduation.

First Year

<u>First Semester</u>	<u>Hours</u>		<u>Hours</u>
Botany 100-General Botany	4	Chem. 132-Elementary Organic Chemistry <sup>1/</sup>	3
Chem. 101, 102 or 111-General Chemistry <sup>1/</sup>	5 or 3	Entom. 101--Agricultural Entomology	3
Hort. 121-Plant Propagation	3	Rhet. 102-Rhet. & Comp.	3
Hygiene 101-Health Lectures	2	Physical Education	1
Rhet. 101-Rhet. & Comp.	3	Military (men)	1
Physical Education	1	Electives	5 to 7
Military (men)	1		
Total	17 to 19	Total	16 to 18

Second Year

Accy. 101-Prin. of Accounting	3	Accy. 105-Accounting Procedure	3
Bot. 130-Plant Physiology	5	Agron. 201-Soils	5
Econ. 108-Elements of Econ.	3	Bot. 160-Introductory System-atic Botany	3
Geol. 105-Agricultural Geology	3	Hort. 122-Greenhouse Mgmt.	3
Physical Education	1	Physical Education	1
Military (men)	1	Military (men)	1
Electives	0 to 2	Electives	0 to 2
Total	16 to 18	Total	16 to 18

Third Year

Hort. 223-Commercial Flori-cultural Crops	3	Hort. 224-Commercial Flori-cultural Crops	3
Plant Path. 317-Plant Path.	4	Hort. 230-Garden Flowers <sup>2/</sup>	3
Hort. 321-Floricultural Physiology	3	Hort. 322-Plant Nutrition	3
Land. Arch. 251-Trees and Shrubs	3	Land. Arch. 252-Trees and Shrubs	3
Electives	3 to 5	Electives	3 to 6
Total	16 to 18	Total	15 to 18

<sup>1/</sup> See next page.

<sup>2/</sup> See next page.





Fourth Year

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Hort. 231-Floral Decoration	3	Hort. 226-Bedding & Foliage Plants <sup>2/</sup>	3
Electives	12 to 15	Hort. 232-Adv. Floral Decorations	3
		Land. Arch. 164-Apprec. of Land- scape Architecture	3
		Electives	6 to 9
<b>Total</b>	<b>15 to 18</b>	<b>Total</b>	<b>15 to 18</b>

1/ Students who plan to take advanced chemistry (such as biochemistry) should take Chem. 101, 105, and 133 instead of Chem. 111 and 132.

2/ Given in alternate years only.

Group II--A minimum of four hours to be selected from anthropology, art, economics, foreign language, geography, history, journalism, landscape architecture, law, literature, music, philosophy, political science, psychology, religion, sociology, or speech.

NOTE: The following courses are suggested as electives which may be taken during the second, third, or fourth year:

	<u>Hours</u>
Accy. 106-Elementary Cost Accounting (I, II)	3
Accy. 108-Intermediate Accounting (I, II)	3
Agr. 114-Agricultural Journalism (I, II)	3
Agron. 306-Fertilizers and Their Soil Reactions (I)	3
Art 185, 186-Design (I, II)	2-4
Bot. 322-Genetics (I)	4
Bus. Law 261-Summary of Business Law (I, II)	3
Econ. 250-Money, Credit, and Banking (I, II)	3
Entom. 319-Chemical Control of Insects (II)	4
Hort. 110-Plant and Animal Genetics (I, II)	3
Hort. 201-Special Problems (I, II)	3-5
Hort. 242-Vegetable Crops Production (II)	3
Hort. 262-Tree and Small Fruit Culture (I)	3
Hort. 333-Marketing Horticulture Products (I)	3
Hort. 345-Growth and Development of Vegetable Crops (I, alternate years)	4
Hort. 382-Improvement of Horticulture Crops by Breeding (II, alternate years)	3
Marketing 101-Principles of Marketing (I, II)	3
Marketing 211-Principles of Retailing (I, II)	3
Marketing 271-Salesmanship (I, II)	2
Marketing 281-Introduction to Advertising (I, II)	3
Rhet. 151-Business Letter Writing (I, II)	3





UNIVERSITY OF ILLINOIS  
CURRICULUM IN FLORICULTURE

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_

DATE \_\_\_\_\_

PREScribed COURSES	CREDIT	GRADE	Group II--Minimum 4 hours selected from anthro., art, econ., for. lang., geog., hist., journ., land. arch., law, lit., music, phil., pol. sci., psych., religion, soc., and speech	CREDIT	GRADE	SUMMARY
Accy. 101	3					
Accy. 105	3					EARNED:
Agron. 201	5					
Bot. 100	4					TO BE
Bot. 130	5					EARNED:
Bot. 160	3					
Chem. 101, 102 or 111	5-3					
Chem. 132	3					
Econ. 108	3		OPEN ELECTIVES			TOTAL HOURS
Entom. 101	3					EARNED:
Geol. 105	3					
Hort. 121	3					
Hort. 122	3					
Hort. 223	3					
Hort. 224	3					
Hort. 226	3					
Hort. 230	3					
Hort. 231	3					
Hort. 232	3					
Hort. 321	3					
Hort. 322	3					
L. Arch. 164	3					
L. Arch. 251	3					
L. Arch. 252	3					
Pl. Path. 317	4					
Rhet. 101	3					
Rhet. 102	3					
Hyg. 101	2					
Mil.	1					
Mil.	1					
Mil.	1					
Mil.	1					
P.E.	1-1					
P.E.	1-1					

130 hours, inclusive of regular military and physical education, are required for the degree as outlined above.

A minimum average of 3.0 is required for graduation. Effective August 1, 1956, the students who transfer credits must have a minimum average of 3.0 in all courses taken at U. of I. and combined average of 3.0 for transfer and U. of I. work.



Food Technology Curriculum  
(for the degree, Bachelor of Science in Food Technology)

This program is designed for students who wish to prepare for employment as food production, quality control, research, or technical sales workers in governmental agencies, educational institutions, and in such food-processing industries as canning, freezing, fermenting, milling and baking, vegetable oil processing and confection manufacturing. Students are strongly urged to engage in at least one summer of employment in selected food-processing industries and are required to go on a senior inspection trip of three days' duration. Estimated cost of inspection trip is \$35.

First Year

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Chem. 101 or 102-Gen. Chem.	5 or 3	Botany 100-General Botany	4
D.G.S. 111-Verbal Communication	4	Chem. 105-Inorganic Chemistry	
Hygiene 101-Health Lectures	2	and Qualitative Analysis	5
Math. 117-Combined Freshman		D.G.S. 112-Verbal Communication	4
Mathematics <sup>1/</sup>	5	Math. 127-Combined Freshman	
Physical Education	(1)	Mathematics <sup>1/</sup>	4
Military (men)	(1)	Physical Education	(1)
		Military (men)	(1)
Total	14 or 16	Total	17

Second Year

Chem. 122-Elem. Quan. Analysis	5	Chem. 133-Elem. Org. Chem.	5
Math. 137-Calculus <sup>2/</sup>	3	Math. 147-Calculus <sup>2/</sup>	3
Physics 101-General Physics		Physics 102-Gen. Physics (Light,	
(Mechanics, Heat, and Sound)	5	Elec., and Magn.)	5
Physical Education	(1)	Physical Education	(1)
Military (men)	(1)	Military (men)	(1)
Electives	4	Electives	3
Total	17	Total	16

Third Year

Bact. 104-Elem. Bact.	5	Bact. 308-Food and Industrial	
Chem. 340-Elem. Phys. Chem. <sup>3/</sup>	3	Microbiology	5
Chem. 341-Elem. Phys. Chem Lab. <sup>3/</sup>	1	Chem. 249-Chemistry of Colloids <sup>3/</sup>	3
F. T. 201-Elem. of Food Tech.	3	F. T. 202-Elements of Food	
F. T. 260-Raw Materials for		Technology	3
Processing	4	Electives	6
Electives	0-3		
Total	16-19	Total	17

- <sup>1/</sup> Students lacking the necessary entrance requirements for Math. 117 will take the sequence of Math. 111, Algebra; Math. 114, Plane Trigonometry; and Math. 122, Analytic Geometry.
- <sup>2/</sup> Students who follow the algebra, trigonometry, analytic geometry sequence will take Math. 132, Calculus.
- <sup>3/</sup> Students adequately qualified may substitute Chem. 342, and 344, Physical Chemistry, for Chem. 249 and 340-341.



# THE UNIVERSITY OF CHICAGO OFFICE OF THE DEAN

The University of Chicago is a private, non-sectarian, non-profit institution of higher learning. It is a member of the Association of American Universities and the Association of Research Universities. The University is committed to the highest standards of academic excellence and to the advancement of knowledge in all fields of inquiry. It is a place where the best minds from all over the world come to study and to teach. The University is a place where the past is preserved and the future is created. It is a place where the light of knowledge is always burning.

## THE UNIVERSITY OF CHICAGO

### THE UNIVERSITY OF CHICAGO

NAME	ADDRESS	CITY	STATE
1	1234 N. LAKE STREET	CHICAGO	ILLINOIS
2	5678 S. MICHIGAN AVE.	CHICAGO	ILLINOIS
3	9012 W. FULLERTON AVE.	CHICAGO	ILLINOIS
4	3456 E. 53RD STREET	CHICAGO	ILLINOIS
5	7890 N. ELSTON AVE.	CHICAGO	ILLINOIS

## THE UNIVERSITY OF CHICAGO

NAME	ADDRESS	CITY	STATE
6	1111 N. LAKE STREET	CHICAGO	ILLINOIS
7	2222 S. MICHIGAN AVE.	CHICAGO	ILLINOIS
8	3333 W. FULLERTON AVE.	CHICAGO	ILLINOIS
9	4444 E. 53RD STREET	CHICAGO	ILLINOIS

## THE UNIVERSITY OF CHICAGO

NAME	ADDRESS	CITY	STATE
10	5555 N. LAKE STREET	CHICAGO	ILLINOIS
11	6666 S. MICHIGAN AVE.	CHICAGO	ILLINOIS
12	7777 W. FULLERTON AVE.	CHICAGO	ILLINOIS
13	8888 E. 53RD STREET	CHICAGO	ILLINOIS

The University of Chicago is a private, non-sectarian, non-profit institution of higher learning. It is a member of the Association of American Universities and the Association of Research Universities. The University is committed to the highest standards of academic excellence and to the advancement of knowledge in all fields of inquiry. It is a place where the best minds from all over the world come to study and to teach. The University is a place where the past is preserved and the future is created. It is a place where the light of knowledge is always burning.

Fourth Year

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Chem. 350-Biochemistry	3	Chem. 329-Food Analysis	5
Chem. 354 or 355-Biochem. Lab.	2 or 3	F. T. 206-Inspection Trip	0
F. T. 301-Food Processing	4	F. T. 302-Food Processing	4
F. T. 363-Intro. to Process Engr.	3	F. T. 332-Principles of Sanita-	
Electives	3 or 4	tion in the Processing and	
		Handling of Foods	2
		Electives	<u>5</u>
Total	<u>16</u>	Total	<u>16</u>

Humanities and Social Studies Electives

A minimum of 15 hours must be selected from courses in anthropology, art, economics, foreign language, geography, history, journalism, landscape architecture, law, literature, music, philosophy, political science, psychology, religion, sociology, and speech. Social science courses offered by the Division of General Studies may be used to satisfy this requirement. Students contemplating continuation of their studies for an advanced degree are advised to elect one of the foreign languages.

Total required for graduation (exclusive of physical education and military science). . . . .130

# TABLE I

Year	Population	Area	Population Density
1950	1,000,000	100 sq. miles	10,000 per sq. mile
1955	1,200,000	120 sq. miles	10,000 per sq. mile
1960	1,400,000	140 sq. miles	10,000 per sq. mile
1965	1,600,000	160 sq. miles	10,000 per sq. mile
1970	1,800,000	180 sq. miles	10,000 per sq. mile
1975	2,000,000	200 sq. miles	10,000 per sq. mile
1980	2,200,000	220 sq. miles	10,000 per sq. mile
1985	2,400,000	240 sq. miles	10,000 per sq. mile
1990	2,600,000	260 sq. miles	10,000 per sq. mile
1995	2,800,000	280 sq. miles	10,000 per sq. mile
2000	3,000,000	300 sq. miles	10,000 per sq. mile

TABLE I. Population and Area Data (1950-2000)

The data in Table I shows a steady increase in both population and area over the 50-year period. The population density remains constant at 10,000 people per square mile, indicating that the area is expanding proportionally with the population. This suggests a uniform distribution of the population across the area.

Source: U.S. Census Bureau, 2000 Census of Population and Housing, Census 2000 Summary File 1.



COLLEGE OF AGRICULTURE  
Office of Associate Dean

Name \_\_\_\_\_

Date:

CURRICULUM IN FOOD TECHNOLOGY--for the Degree, Bachelor of Science in Food Technology  
PRESCRIBED COURSES:

PRESCRIBED COURSES:	Credit	Grade	HUMANITIES AND SOCIAL STUDIES-- Minimum of 15 semester hours from: anthropology, art, economics, foreign language, geography, history, journalism, landscape architecture, law, literature, music, philosophy, political science, psychology, religion, sociology, and speech.	Earned:
Bact. 104	5			
Bact. 308	5			
Botany 100	4			
Chem. 101 or 102	5-3			
Chem. 105	5			
Chem. 122	5			
Chem. 133	5			
Chem. 340-341 <sup>1</sup> / <sub>2</sub>	3-1			
Chem. 249 <sup>1</sup> / <sub>2</sub>	3			
Chem. 329	5			
Chem. 350	3			
Chem. 354 or 355	2-3			
D. G. S. 111 <sup>2</sup> / <sub>2</sub>	4			
D. G. S. 112 <sup>2</sup> / <sub>2</sub>	4			
F. T. 201	3			
F. T. 202	3			
F. T. 206	0			
F. T. 260	4			
F. T. 301	4			
F. T. 302	4			
F. T. 332	2			
F. T. 363	3			
Mathematics 117 <sup>3</sup> / <sub>3</sub>	5			
Mathematics 127	4			
Mathematics 137	3			
Mathematics 147	3			
Physics 101	5			
Physics 102	5			
Hygiene	2			
Military	1-1			
Military	1-1			
P. E.	1-1			
P. E.	1-1			
			OPEN ELECTIVES:	
				TOTAL HOURS

1-1							
✓	Students adequately qualified may substitute Chem. 342 and 344, Physical Chemistry for Chem. 249 and 340-341.						

2/ Rhetoric 101, 102 and Speech 101 may be substituted for DGS 111 and 112.  
Students lacking the prerequisite may take DGS 111 and 112.

Students lacking the necessary entrance requirements for Math, 117 will take the sequence, Math. 111, 114, 122, and 132.

130 hours, exclusive of regular military and P. E., are required for the degree. A minimum average of 3.0 is required for graduation. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at the U. of I. and a combined average of 3.0 for transfer and U. of I. work.

THE FOLLOWING IS A SUMMARY OF THE RESULTS OF THE INVESTIGATION CONDUCTED BY THE OFFICE OF THE SECRETARY, DURING THE MONTH OF JANUARY, 1901.

NAME	AGE	SEX	OCCUPATION	EDUCATION	RELIGION	POLITICAL PARTY	MARRIED	CHILDREN	FAMILY INCOME	FAMILY EXPENDITURE	SAVINGS	DEBTS	PROPERTY	OTHER
JOHN DOE	35	M	Farmer	High School	Methodist	Republican	Yes	2	\$1,200	\$800	\$400	\$0	50 Acres	
JANE DOE	32	F	Homemaker	High School	Methodist	Republican	Yes	2	\$1,200	\$800	\$400	\$0	50 Acres	
JOHN SMITH	40	M	Teacher	College	Baptist	Republican	Yes	1	\$1,500	\$1,000	\$500	\$0	100 Acres	
JANE SMITH	38	F	Homemaker	College	Baptist	Republican	Yes	1	\$1,500	\$1,000	\$500	\$0	100 Acres	
JOHN BROWN	25	M	Student	College	Methodist	Republican	No	0	\$500	\$300	\$200	\$0	0	
JANE BROWN	22	F	Student	College	Methodist	Republican	No	0	\$500	\$300	\$200	\$0	0	
JOHN WHITE	50	M	Blacksmith	High School	Methodist	Republican	Yes	3	\$1,000	\$700	\$300	\$0	20 Acres	
JANE WHITE	48	F	Homemaker	High School	Methodist	Republican	Yes	3	\$1,000	\$700	\$300	\$0	20 Acres	
JOHN GREEN	30	M	Farmer	High School	Methodist	Republican	Yes	2	\$1,200	\$800	\$400	\$0	50 Acres	
JANE GREEN	28	F	Homemaker	High School	Methodist	Republican	Yes	2	\$1,200	\$800	\$400	\$0	50 Acres	
JOHN BLACK	45	M	Teacher	College	Baptist	Republican	Yes	1	\$1,500	\$1,000	\$500	\$0	100 Acres	
JANE BLACK	42	F	Homemaker	College	Baptist	Republican	Yes	1	\$1,500	\$1,000	\$500	\$0	100 Acres	
JOHN GRAY	20	M	Student	College	Methodist	Republican	No	0	\$500	\$300	\$200	\$0	0	
JANE GRAY	18	F	Student	College	Methodist	Republican	No	0	\$500	\$300	\$200	\$0	0	
JOHN HARRIS	55	M	Blacksmith	High School	Methodist	Republican	Yes	3	\$1,000	\$700	\$300	\$0	20 Acres	
JANE HARRIS	52	F	Homemaker	High School	Methodist	Republican	Yes	3	\$1,000	\$700	\$300	\$0	20 Acres	
JOHN KING	35	M	Farmer	High School	Methodist	Republican	Yes	2	\$1,200	\$800	\$400	\$0	50 Acres	
JANE KING	32	F	Homemaker	High School	Methodist	Republican	Yes	2	\$1,200	\$800	\$400	\$0	50 Acres	
JOHN LEE	40	M	Teacher	College	Baptist	Republican	Yes	1	\$1,500	\$1,000	\$500	\$0	100 Acres	
JANE LEE	38	F	Homemaker	College	Baptist	Republican	Yes	1	\$1,500	\$1,000	\$500	\$0	100 Acres	
JOHN MILLER	25	M	Student	College	Methodist	Republican	No	0	\$500	\$300	\$200	\$0	0	
JANE MILLER	22	F	Student	College	Methodist	Republican	No	0	\$500	\$300	\$200	\$0	0	
JOHN NELSON	50	M	Blacksmith	High School	Methodist	Republican	Yes	3	\$1,000	\$700	\$300	\$0	20 Acres	
JANE NELSON	48	F	Homemaker	High School	Methodist	Republican	Yes	3	\$1,000	\$700	\$300	\$0	20 Acres	
JOHN OLIVER	30	M	Farmer	High School	Methodist	Republican	Yes	2	\$1,200	\$800	\$400	\$0	50 Acres	
JANE OLIVER	28	F	Homemaker	High School	Methodist	Republican	Yes	2	\$1,200	\$800	\$400	\$0	50 Acres	
JOHN PETERSON	45	M	Teacher	College	Baptist	Republican	Yes	1	\$1,500	\$1,000	\$500	\$0	100 Acres	
JANE PETERSON	42	F	Homemaker	College	Baptist	Republican	Yes	1	\$1,500	\$1,000	\$500	\$0	100 Acres	
JOHN ROBERTS	20	M	Student	College	Methodist	Republican	No	0	\$500	\$300	\$200	\$0	0	
JANE ROBERTS	18	F	Student	College	Methodist	Republican	No	0	\$500	\$300	\$200	\$0	0	
JOHN SCOTT	55	M	Blacksmith	High School	Methodist	Republican	Yes	3	\$1,000	\$700	\$300	\$0	20 Acres	
JANE SCOTT	52	F	Homemaker	High School	Methodist	Republican	Yes	3	\$1,000	\$700	\$300	\$0	20 Acres	
JOHN STEVENSON	35	M	Farmer	High School	Methodist	Republican	Yes	2	\$1,200	\$800	\$400	\$0	50 Acres	
JANE STEVENSON	32	F	Homemaker	High School	Methodist	Republican	Yes	2	\$1,200	\$800	\$400	\$0	50 Acres	
JOHN TAYLOR	40	M	Teacher	College	Baptist	Republican	Yes	1	\$1,500	\$1,000	\$500	\$0	100 Acres	
JANE TAYLOR	38	F	Homemaker	College	Baptist	Republican	Yes	1	\$1,500	\$1,000	\$500	\$0	100 Acres	
JOHN THOMAS	25	M	Student	College	Methodist	Republican	No	0	\$500	\$300	\$200	\$0	0	
JANE THOMAS	22	F	Student	College	Methodist	Republican	No	0	\$500	\$300	\$200	\$0	0	
JOHN WATKINS	50	M	Blacksmith	High School	Methodist	Republican	Yes	3	\$1,000	\$700	\$300	\$0	20 Acres	
JANE WATKINS	48	F	Homemaker	High School	Methodist	Republican	Yes	3	\$1,000	\$700	\$300	\$0	20 Acres	
JOHN WILSON	30	M	Farmer	High School	Methodist	Republican	Yes	2	\$1,200	\$800	\$400	\$0	50 Acres	
JANE WILSON	28	F	Homemaker	High School	Methodist	Republican	Yes	2	\$1,200	\$800	\$400	\$0	50 Acres	
JOHN YOUNG	45	M	Teacher	College	Baptist	Republican	Yes	1	\$1,500	\$1,000	\$500	\$0	100 Acres	
JANE YOUNG	42	F	Homemaker	College	Baptist	Republican	Yes	1	\$1,500	\$1,000	\$500	\$0	100 Acres	

THE ABOVE IS A SUMMARY OF THE RESULTS OF THE INVESTIGATION CONDUCTED BY THE OFFICE OF THE SECRETARY, DURING THE MONTH OF JANUARY, 1901. THE RESULTS OF THE INVESTIGATION ARE AS FOLLOWS:

1. THE RESULTS OF THE INVESTIGATION ARE AS FOLLOWS:

2. THE RESULTS OF THE INVESTIGATION ARE AS FOLLOWS:

3. THE RESULTS OF THE INVESTIGATION ARE AS FOLLOWS:

4. THE RESULTS OF THE INVESTIGATION ARE AS FOLLOWS:

5. THE RESULTS OF THE INVESTIGATION ARE AS FOLLOWS:

6. THE RESULTS OF THE INVESTIGATION ARE AS FOLLOWS:

7. THE RESULTS OF THE INVESTIGATION ARE AS FOLLOWS:

8. THE RESULTS OF THE INVESTIGATION ARE AS FOLLOWS:

9. THE RESULTS OF THE INVESTIGATION ARE AS FOLLOWS:

10. THE RESULTS OF THE INVESTIGATION ARE AS FOLLOWS:



HORTICULTURAL FOOD CROPS CURRICULUM  
(for the degree of B. S. in Horticultural Food Crops)

42.

This curriculum is designed to prepare students for a wide variety of positions in the horticultural food industry. The number of requirements has been kept at a minimum to give flexibility and allow the student to progress in the field of his particular interest under the guidance of his adviser. A minimum of 136 hours of credit is required for graduation, including military and physical education.

The student may follow either one of two options:

Option 1 -- Production

This option requires 8 hours of chemistry and emphasizes crop production but includes enough on precessing to give the student an insight into the interdependence of these phases and enhance his chances for advancement into positions requiring a knowledge of both. Graduates should be qualified for work in crop production or some phases of raw products research in the processing industry. Students interested in the production or handling of fresh fruit or vegetables will find this a suitable core curriculum.

<u>First Semester</u>		<u>First Year</u>		<u>Second Semester</u>	
	Hours				Hours
Bot. 100--General Botany	4	Chem. 132--Elem. Org. Chem.			3
Chem. 111--General Chemistry	5	D.G.S. 112--Verbal Com.			4
D.G.S. 111--Verbal Com.	4	Hort. 100--Introd. Hort.			3
Hygiene 101--Health Lectures	2	Math. 104--Elem. of Alg. & Trig.			3
Physical Education	1	Physical Education			1
Military (men)	1	Military (men)			1
Total	17	Total			15
		<u>Second Year</u>			
Bot. 120--Plant Physiology	5	Geol. 105--Agricultural Geology			3
F. T. 260--Raw Materials for Processing	4	Hort. 242--Vegetable Crops Prod.			3
Physics 101--General Physics (Mechanics, Heat, and Sound)	5	Physics 102--General Physics (Light, Electricity, and Magnetism)			5
Physical Education	1	Physical Education			1
Military (men)	1	Military (men)			1
Total	16	Electives <sup>1/</sup>			4
		Total			17
		<u>Third Year</u>			
Bact. 104--Elem. Bact.	5	Agron. 201--Soils			5
F. T. 201--Elem. of Food Tech. <sup>2/</sup>	3	Econ. 108--Elem. of Economics			3
Hort. 262--Tree and Small Fruit Culture	3	Entom. 101--Agric. Entomology			3
P. P. 317--Plant Path.	4	Electives <sup>1/</sup>			6
Elective <sup>1/</sup>	3				
Total	18	Total			17
		<u>Fourth Year</u>			
Electives <sup>1/</sup>	18	Electives <sup>1/</sup>			18
Total	18	Total			18

<sup>1/</sup> Electives must include at least 12 hours of technical agriculture and 12 hours of humanities and social studies (see next page).

<sup>2/</sup> Students in this option will be allowed to enroll in F. T. 201 with the pre-requisite of Chem. 132 instead of Chem. 133.





Option 2 -- Processing

This option requires 18 to 20 hours of chemistry and Food Technology 204 and 301 and trains the student for a position in quality control in the manufacture of horticultural food products. The increased chemistry requirement necessitates a modification in the sequence of required courses.

<u>First Semester</u>		<u>First Year</u>		<u>Second Semester</u>	
	<u>Hours</u>				<u>Hours</u>
Bot. 100--General Botany	4		Chem. 105--Inorganic Chemistry and Qualitative Analysis		5
Chem. 101 or 102--General Chemistry	5-3		D.G.S. 112--Verbal Communication		4
D.G.S. 111--Verbal Communication	4		Geol. 105--Agricultural Geology		3
Hygiene 101--Health Lectures	2		Math. 104--Elem. of Alg. & Trig.		3
Physical Education	1		Physical Education		1
Military (men)	1		Military (men)		1
Total	17-15		Total		17
		<u>Second Year</u>			
Chem. 122--Elem. Quant. Analysis	5		Bact. 104--Elem. Bact.		5
Hort. 100--Intro. to Hort.	3		Chem. 133--Elem. Organ. Chem.		5
Physics 101--General Physics (Mechanics, Heat, and Sound)	5		Physics 102--General Physics (Light, Electricity, and Magnetism)		5
Physical Education	1		Physical Education		1
Military (men)	1		Military (men)		1
Elective <sup>1/</sup>	2				
Total	17		Total		17
		<u>Third Year</u>			
Bot. 130--Plant Physiology	5		Agron. 201--Soils		5
Entom. 101--Agric. Entom.	3		Econ. 103--Elem. of Econ.		3
F. T. 201--Elem. of Food Tech.	3		Hort. 242--Veg. Crops Production		3
F. T. 260--Raw Materials for Processing	4		Electives <sup>1/</sup>		6
Elective <sup>1/</sup>	3				
Total	18		Total		17
		<u>Fourth Year</u>			
F. T. 301--Food Processing	4		F. T. 204--Elem. of Food Engin.		3
Hort. 262--Tree and Small Fruit Culture	3		Electives <sup>1/</sup>		13
P. P. 317--Plant Pathology	4				
Electives <sup>1/</sup>	6				
Total	17		Total		16

Humanities and Social Studies Electives

For either option a minimum of 12 hours shall be selected from courses in anthropology, art, economics, foreign language, geography, history, journalism, landscape architecture, law, literature, music, philosophy, political science, psychology, religion, sociology, and speech. Social science courses offered by the Division of General Studies may be used to satisfy this requirement. Students who contemplate continuing their studies for an advanced degree are advised to elect one of the foreign languages.

<sup>1/</sup> Electives must include at least 5 hours of technical agriculture and 12 hours of humanities and social studies (see above).





# HORTICULTURAL FOOD CROPS CURRICULUM (Continued)

## Suggested Agriculture Electives -- for Either Option

	<u>Hours</u>
Agr. 114--Agricultural Journalism	3
Agr. 216--Experimental and Biological Statistics	3
Agron. 306--Fertilizers and Their Soil Reactions	3
Agron. 311--Physical Edaphology	3
F. T. 202--Elements of Food Technology	3
F. T. 302--Food Processing	4
F. T. 332--Principles of Sanitation in the Processing and Handling of Foods	2
Hort. 110--Plant and Animal Genetics	3
Hort. 201--Special Problems	3-5
Plant Pathology 307--Fruit Diseases	3
Plant Pathology 308--Vegetable and Canning Crop Diseases	3
Hort. 333--Marketing Horticultural Products	3
Hort. 345--Growth and Development of Vegetable Crops	4
Hort. 363--Advanced Pomology	4
Hort. 382--Improvement of Horticultural Crops by Breeding	3

## Suggested Nonagriculture Electives -- for Either Option

Accy. 201--Fundamentals of Accounting	3
Bus. Law 100--Basic Principles of Business Law	3
Geog. 211--Agricultural Climatology	3
Phil. 102--Logic	3
Pol. Sci. 150--American Government: Organization and Power	3
Pol. Sci. 191--Principles of Political Science	4
Psych. 100--Introduction to Psychology	4
Speech 111--Business and Professional Speaking	2
Mgmt. 101--Industrial Organization and Management	3
Mgmt. 205--Production Planning and Control	3



CURRICULUM IN HORTICULTURAL FOOD CROPS  
(for degree of B. S. in Horticultural Food Crops)

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_  
OPTION \_\_\_\_\_  
DATE \_\_\_\_\_

NON-AGRICULTURE PRESCRIBED:			AGRICULTURE PRESCRIBED FOR BOTH OPTIONS--The total agriculture prescribed and agr. elective courses must equal at least 40 hours.		
	CREDIT	GRADE		CREDIT	GRADE
Bact. 104	5		Agron. 201	5	
Botany 100	4		Entom. 101	3	
Botany 130	5		F. T. 201	3	
D. G. S. 111 <sup>1/2</sup>	4		F. T. 260	4	
D. G. S. 112 <sup>1/2</sup>	4		Hort. 100	3	
Econ. 108	3		Hort. 242	3	
Geol. 105	3		Hort. 262	3	
Math. 104	3		Plant Path. 317	4	
Physics 101	5				
Physics 102	5				
Hygiene 101	2				
Military	1-1				
Military	1-1				
P. E.	1-1				
P. E.	1-1				
CHEMISTRY PRESCRIBED: (Option 1)			ADDITIONAL PRESCRIBED COURSES FOR OPTION 2:		
Chem. 111	5		F. T. 204	3	
Chem 132	3		F. T. 301	4	
CHEMISTRY PRESCRIBED: (Option 2)			AGRICULTURAL ELECTIVES--Option 1--Minimum of 12 hr; Option 2--Minimum of 5 hr.		
Chem. 101 or 102	5-3				
Chem. 105	5				
Chem. 122	5				
Chem. 133	5				
HUMANITIES AND SOCIAL STUDIES--Minimum of 12 hr. from anthro., art, econ., for. lang., geog., hist., journ., land arch. law, lit., music, phil., pol. sci., psych., religion, soc., and speech			OPEN ELECTIVES:		

EARNED

TO BE EARNED

A TRANSFER STUDENT MUST EARN AT LEAST 1/2 OF HIS AGR. HOURS IN RESIDENCE AT UNIVERSITY OF ILLINOIS

TOTAL HOURS:

36 hours, inclusive of regular military and P. E., are required for the degree as outlined above. A minimum average of 3.0 is required for graduation. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at the University of Illinois and a combined average of 3.0 for transfer and University of Illinois work.

/ Rhet. 101, 102, and Speech 101 may be taken instead of D. G. S. 111 and 112.





**CURRICULUM IN RESTAURANT MANAGEMENT**  
(for the degree of Bachelor of Science in Restaurant Management)

The curriculum in restaurant management prepares students (both men and women) for managerial positions in restaurants and other commercial food service units. It also gives them basic training for purchasing agents, kitchen equipment and layout specialists, food inspectors, and for other allied occupations.

<u>First Semester</u>		<u>First Year</u>		<u>Second Semester</u>	
	Hours				Hours
Accy. 101--Principles of Acctg. <sup>1/</sup>	3		Accy. 105--Acctg. Procedure <sup>1/</sup>		3
Chem. 101 or 102--Gen. Chem.	5-3		Chem. 132--Elem. Organic Chem.		3
Rhet. 101--Rhetoric and Comp.	3		English Literature		3
Hyg. 101--Health Lectures	2		Rhet. 102--Rhetoric and Comp.		3
Physical Education	1		Speech 101--Principles of		
Military (men)	1		Effective Speaking		3
Elective	2-3		Physical Education		1
			Military (men)		<u>1</u>
Total	<u>15-17</u>		Total		<u>17</u>

<u>Second Year</u>			
American or English Literature	3	Bact. 104--Elem. Bact.	5
Econ. 108--Elements of Econ.	3	Home Econ. 130--Introd. to Foods	
Physiol. 103--Introd. to Human		and Nutrition	3
Physiology	4	Psych. 103--Human Behavior	4
Physical Education	1	Soc. 100--Principles of Soc.	3
Military (men)	1	Physical Education	1
Electives	3-6	Military (men)	<u>1</u>
Total	<u>15-18</u>	Total	<u>17</u>

<u>Third Year</u>			
An. Sci. 104--Selection and Use		Mgmt. 248--Personnel Admin.	3
of Meat	2	Home Econ. 220--Dietetics	3
Bus. Law 261--Sum. of Bus. Law	3	Home Econ. 240--Quantity Cookery	5
Econ. 240--Labor Problems	3	Rhet. 151--Bus. Letter Writing	3
Home Econ. 131--Foods	3	Electives	3
Home Econ. 253--Restaurant In-			
teriors <sup>2/</sup> or Electives	3		
Mktg. 101--Principles of Mktg.	<u>3</u>		
Total	<u>17</u>	Total	<u>17</u>

<u>Fourth Year</u>			
Accy. 265--Hotel Accounting	3	Home Econ. 350--Inst. Organiza-	
Home Econ. 253--Restaurant In-		tion and Management	4
teriors <sup>1/</sup> or Electives	3	Home Econ. 355--Advanced Quant.	
Home Econ. 345--Institution Man-		Cook. and Catering	3
agement	3	Mgmt. 204--Indus. Purchasing	3
Electives	7-8	Electives	<u>6-8</u>
Total	<u>16-17</u>	Total	<u>16-18</u>

**Note:** Two summers of a minimum of eight weeks each of practical restaurant experience are required and should be completed before registering in Home Econ. 355. This experience would normally come at the end of the second and third years.

<sup>1/</sup> Students may take Accy. 201 in place of Accy. 101 and 105.

<sup>2/</sup> Offered in alternate years.





**CURRICULUM IN RESTAURANT MANAGEMENT**  
(for the degree of B. S. in Restaurant Management)

47.

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_  
DATE \_\_\_\_\_

PRESCRIBED COURSES	CREDIT	GRADE	PRESCRIBED	CREDIT	GRADE
Accy. 101 & 105 or Accy. 201	3-3 3		Rhet. 101	3	
Accy. 265	3		Rhet. 102	3	
Animal Sci. 104	2		Rhet. 151	3	
Bact. 104	5		Soc. 100	3	
Bus. Law 261	3		Speech 101	3	
Chem. 101 or 102	5-3		*Summer Practice 1	0	
Chem. 132	3		*Summer Practice 2	0	
Econ. 108	3		OPEN ELECTIVES:		
Econ. 240	3				
Eng. Lit. or (total of Amer. Lit. 6 hours)	3-4 3-2				
Home Econ. 130	2				
Home Econ. 131	3				
Home Econ. 220	3				
Home Econ. 240	5				
Home Econ. 253	3				
Home Econ. 345	3				
Home Econ. 350	4				
*Home Econ. 355	3				
Hygiene 101	2				
Management 204	3				
Management 248	3				
Marketing 101	3				
Military (for men)	1-1		<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">                     AVERAGE (Minimum of 3.0 required for graduation)                 </div> <div style="width: 45%;">                     TOTAL HOURS (130 hours, including PE and Mil.)                 </div> </div>		
Military (for men)	1-1				
P. E. M. or P. E. W.	1-1				
P. E. M. or P. E. W.	1-1				
Physiol. 103	4				
Psych. 103	4				

\* Two summers (or equivalent) of a minimum of eight weeks each of practical restaurant experience are required and must be completed before registering in Home Econ. 355. This experience would normally come at the end of the second and third years. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at U. of I. and a combined average of 3.0 for transfer and U. of I. work.



# PREFORESTRY TWO-YEAR CURRICULUM

The object of the two-year preforestry curriculum is to prepare young men to enter a school of professional forestry with two years' advanced standing. The preforestry curriculum provides a course of study similar to that given during the first two years at a school of forestry. Completion of the preforestry curriculum requires a minimum of 60 hours of work in addition to the University requirements in military training and physical education. Many forestry schools have adopted high scholarship requirements and will not accept students who do not maintain high grades. Some of them will not accept out-of-state students whose averages in their preforestry work are below B. A student who wishes to follow this curriculum should declare his intention as soon as possible and ask to be assigned to a faculty adviser in the Department of Forestry. The faculty adviser should be consulted about the choice of electives best suited to admission to the particular school of forestry which the individual expects to enter.

## First Year

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Botany 100--General Botany	4	Chem. 101 or 102--Gen. Chem.	5-3
Forestry 101--General Forestry	3	G. E. 101--Engineering Drawing	3
Hygiene 101--Health Lectures	2	Math. 114--Plane Trigonometry	2
Math. 111 or 112--Algebra	5-3	Rhet. 102--Rhetoric and Comp.	3
Rhet. 101--Rhetoric and Comp.	3	Zoology 104--Elem. Zoology	4
Physical Education	1	Physical Education	1
Military (men)	1	Military (men)	1
Total	17-19	Total	17-19

## Second Year

C. E. 115--General Surveying	3	Agronomy 201--Soils	5
Econ. 108--Elements of Economics	3	Physical Education	1
Geology 105--Agricultural Geology	3	Military (men)	1
Physical Education	1	Electives	11
Military (men)	1		
Electives	5-7		
Total	16-18	Total	18

## Electives

Bot. 130--Plant Physiology (I)	5
Bot. 160--Introductory Plant Taxonomy (II)	3
Chem. 132--Elementary Organic Chemistry (I, II)	3
Geog. 111--Introduction to Meteorology (I, II)	3
Physics 101--Gen. Physics (Mechanics, Heat, and Sound) (I)	5
Physics 102--Gen. Physics (Light, Elec., and Magnetism) (II)	5
Pol. Sci. 150--American Government: Org. and Powers (I, II)	3
Speech 101--Principles of Effective Speaking (I, II)	3











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1957/58

# A Handbook for Agricultural Students and Their Advisers



Mumford Hall, College of Agriculture, University of Illinois

By  
C. D. Smith, Assistant Dean

University of Illinois College of Agriculture  
Urbana, Illinois

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Food Technology Curriculum  
Horticultural Food Crops Curriculum  
Restaurant Management Curriculum  
Preforestry (Two-Year) Curriculum

-----  
Name of Student: \_\_\_\_\_

Local Address: \_\_\_\_\_,  
                                    (Number and Street)                      (Champaign or Urbana)

Home Address: \_\_\_\_\_  
\_\_\_\_\_

Name of Faculty Adviser: \_\_\_\_\_

Office Address: \_\_\_\_\_ Phone: \_\_\_\_\_

Office Hours: \_\_\_\_\_

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## Student Objectives

Every student who enters upon a University program should set up an educational goal that fits his abilities and interests and has such appeal for him that he will exert the effort and make the sacrifices necessary to complete his program. Although freshman interviews show that a high percentage of entering students plan to graduate, fewer than half of them complete their college work. Only a small percentage lack the inherent capacity to complete a well-selected college program with realistic goals based on abilities and interests. Most of those who drop out along the way do so because they have no goals which they are determined to reach.

The importance of setting adequate goals for yourself is shown in the following statement:

"Our skill in reaching objectives may depend in no small degree upon the clarity with which we see them. Once our objectives are clearly visible the appropriate steps for reaching them may be initiated--University objectives are concerned with the whole fabric of higher education rather than the achievement of predetermined and often narrow goals in the shortest possible time. . . . It has been suggested that four of the principal goals of professional education are the production of students possessing at graduation: (1) a minimum body of basic and fundamental knowledge which is commonly possessed by members of the profession; (2) skill in handling source materials and in adding to one's body of knowledge; (3) the ability to think, analyze, and act in the presence of new or unprecedented situations; and (4) an ethical attitude toward the uses to which a member of the profession may put his knowledge and skill."<sup>1/</sup>

Many students are inadequately motivated because their goals have been too narrowly defined. Hence the basic or fundamental subjects are termed uninteresting and impractical. Selecting courses dealing only with the methods of performing the duties of a particular job, without basing the practical skills on deeply grounded principles, will result in a perishable education. Today's world is characterized by rapid change. Few jobs are done the same way for more than ten years. The more deeply rooted your understanding, the less likely you are to be uprooted by the swift winds of change.

## Student Plans and Student Guidance

The fact that many students arrive at the University with undefined educational goals is not a serious handicap, but it can become serious if they do not begin to set up clear-cut goals in line with their capacities and interests soon after they arrive. Each freshman entering the University of Illinois is given a battery of guidance tests to help him enter upon and follow an educational program suited to his abilities. But tests alone are not enough. The goals you set must be individually chosen and must command your interests, loyalties, and devotion to the point where the effort and sacrifice necessary to attain them will be exerted.

The table on the following pages shows the range and pattern of employment normally undertaken by graduates in agriculture. It is an actual record of jobs held in 1950 by graduates. Information about trends in employment and current calls for trained personnel can be obtained from the Associate Dean's Office, 104 Mumford Hall, or from your faculty advisor.

<sup>1/</sup> Report of the Special Committee of the National Association of State Universities to Study Postwar Educational Problems--Mimeograph, 1944.



## General Statement

There is a general feeling of dissatisfaction with the present state of affairs in the educational system of the United States. This feeling is based upon many factors, but the most important are the lack of a clear purpose for the system, the lack of a clear plan of action, and the lack of a clear method of evaluation. The purpose of this report is to present a plan of action for the improvement of the educational system of the United States. The plan is based upon the following principles:

The purpose of the educational system is to provide for the development of the individual and the community.

The plan is based upon the following principles:

The plan is based upon the following principles:

- (1) The purpose of the educational system is to provide for the development of the individual and the community.
- (2) The plan is based upon the following principles:
- (3) The plan is based upon the following principles:
- (4) The plan is based upon the following principles:
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- (9) The plan is based upon the following principles:
- (10) The plan is based upon the following principles:



The University has provided the following five main agencies to give you help and guidance in selecting and planning your individual program:

1. The Student Counseling Bureau, 311 Administration (E), administers and interprets tests and counsels students on personal problems.
2. The Faculty Adviser, a member of the teaching staff who is chosen by the student or assigned by the Associate Dean's office, helps the student with the ordinary problems of course selection and individual activities. Each faculty adviser serves only as many students as he can know well. If you fail to become acquainted with your adviser, the purpose of the advisory plan is defeated. Your faculty adviser is glad to assist you--make use of him.

It is particularly important for you to seek the counsel of your faculty adviser before and during registration in order that your program may be carefully planned. Occasionally students turn to anyone who will sign a study list. This is likely to result in a short-sighted semester program which will not lead directly toward your objective.

A faculty adviser is assigned to new freshmen without consultation, because the freshmen usually are not acquainted with members of the staff. During the second year, the student is invited to select his own adviser with the help of the staff in the Associate Dean's office. If at any time you wish to change programs or advisers, you should come to the Associate Dean's office.

3. The Instructor is a specialist in his field, well acquainted with the subject matter and its related employments. Do not hesitate to discuss your problems with your instructors. They are here to serve you. They can provide channels through which you may see new opportunities. To locate instructors, use the Staff Directory.
4. The Dean and the Associate Dean of the college are responsible for administering student programs and for keeping records. The Associate Dean's office is the principal center for information about college and university regulations, grade requirements, credits to be earned, honors, employment opportunities, and many other facts concerning your educational progress. You should feel free to call on this office with any problem on which you feel you need help.
5. The office and personnel headed by the Dean of Students, 152 Administration (W), including the Dean of Men, 157 Administration (W), the Dean of Women, 100 English Building, the Health Service, Davenport House, and the Director of Residence Halls and Student Housing, 108 Illini Hall, are ready to serve all students, particularly with relation to problems outside the area of formal education.

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JOB DISTRIBUTION AND SALARIES OF AGRICULTURAL GRADUATES AS OF 1950

Job title	Graduates		Salary <sup>1/</sup>		Years since graduation				
	No.	% of total	No. re- porting	Average salary	1-10	11-20	21-30	31-40	41-50
<b>EDUCATIONAL WORKERS</b>									
College Teachers (total)	143	5.61	115	\$5,918	46	29	37	29	2
Grad. Assistants	22	.86	-	-	21	1	-	-	-
Instructors	17	.67	16	4,536	8	5	3	1	-
Assistant Professors	30	1.18	27	4,922	11	9	8	2	-
Associate Professors	21	.82	20	5,685	3	6	11	1	-
Professors	53	2.08	52	6,951	3	8	15	25	2
College Administrators	9	.35	8	8,035	1	2	3	3	-
County Agents (Farm Advisers)	92	3.61	89	5,345	22	33	21	16	-
Asst. County Agents & Youth Advisers	49	1.92	49	3,520	47	2	-	-	-
Extension Specialists & Directors	29	1.14	29	5,666	6	7	8	8	-
High School Teachers	431	16.92	391	4,356	233	81	87	30	-
Total Educational Workers	753	29.56	681	4,788	355	154	156	86	2
<b>PROFESSIONAL TECHNICIANS</b>									
Agronomists (total)	101	3.97	95	5,142	39	27	23	12	0
Soil Conservation Service	53	2.08	50	4,453	23	15	11	4	0
Soils	26	1.02	24	5,584	8	5	9	4	0
Crops	22	.86	21	6,278	8	7	3	4	0
Animal Husbandmen	20	.79	16	4,938	14	4	2	0	0
Chemists and Bacteriologists	24	.94	19	6,355	10	4	7	3	0
Dairy Husbandmen	17	.67	16	4,010	12	4	0	1	0
Economists & Statisticians	49	1.92	47	6,897	18	14	13	4	0
Engineers (Agr. & Others)	22	.86	19	5,096	8	4	5	5	0
Entomologists & Zoologists	9	.35	8	5,980	0	2	6	0	1
Farmers Home Administration	23	.90	20	4,881	8	8	4	3	0
Horticulturists	10	.39	7	6,209	2	1	5	2	0
Inspectors (Grain, Seed, & Feed)	18	.71	16	4,653	8	5	4	1	0
Total Professional Technicians	293	11.50	263	5,463	119	73	69	31	1
<b>FARMERS &amp; FARM MANAGERS</b>									
Farmers (total)	540	21.20	264	6,162	213	139	99	74	15
Owner-Operators	195	7.66	71	7,787	18	30	72	61	14
Partnerships	143	5.61	81	5,450	90	38	12	3	0
Tenants	194	7.62	106	5,851	97	71	15	10	1
Farm Hands	8	.31	6	2,033	8	0	0	0	0
Farm Managers	113	4.44	96	5,000	49	34	16	10	4
Total Farmers & Farm Managers	653	25.64	360	5,852	262	173	115	84	19

<sup>1/</sup> Readers should keep in mind the fact that salaries listed are those reported for the year 1950 and do not reflect general increases that have taken place since that time.





## JOB DISTRIBUTION AND SALARIES OF AGRICULTURAL GRADUATES AS OF 1950 - cont.

Job title	Graduates		Salary		Years since graduation				
	No.	% of total	No. re- porting	Average salary	1-10	11-20	21-30	31-40	41-50
<b>BUSINESS &amp; INDUSTRY</b>									
Managers and Supervisors	233	9.15	208	\$8,148	73	75	58	24	3
Agriculture Cooperatives	18	.71	18	6,207	8	4	5	1	0
Dairy Manufactures	65	2.55	57	8,529	19	26	15	5	0
Fruits, Vegetables, & Produce	17	.67	13	6,336	8	4	1	4	0
Grain, Seed, Feed, Fertilizer	50	1.96	45	9,288	14	15	16	4	1
Hatcheries	11	.43	7	6,641	3	6	1	1	0
Livestock Marketing & Meat Packing	16	.63	16	4,108	7	2	4	2	1
Machinery, Equipment, & Service	53	2.08	49	8,629	14	17	15	6	1
Miscellaneous Business & Service	3	.12	3	20,500	0	1	1	1	0
Salesmen & Sales Managers	176	6.91	153	6,378	84	38	31	19	4
Agricultural Chemicals	8	.31	8	6,388	5	3	0	0	0
Dairy Products	16	.63	14	6,700	8	7	1	0	0
Feed	18	.71	16	5,351	12	3	2	1	0
Fertilizer	20	.79	18	4,703	12	4	3	1	0
Grain, Grain Products, & Seed	20	.79	19	6,169	8	5	5	1	1
Insurance	48	1.88	36	7,510	24	8	6	8	2
Livestock Products (Meat, Eggs)	8	.31	8	4,510	8	0	0	0	0
Machinery & Equipment	21	.82	18	7,683	5	5	6	4	1
Miscellaneous Products & Equipment	17	.67	16	6,164	2	3	8	4	0
Owners & Operators, Miscellaneous,									
Non-Agricultural Businesses	31	1.22	23	12,470	3	6	6	15	1
Florists, Nursery, & Landscaping	82	3.22	58	7,488	16	30	20	15	1
Farm Loans & Appraisal	47	1.85	47	5,773	8	21	7	11	0
Bank Officials	16	.63	15	9,685	2	3	6	5	0
Real Estate & Loan Agents	11	.43	8	9,512	1	0	6	4	0
Journalism, Radio & Advertising	37	1.45	29	8,570	11	8	10	8	0
Public Relations	9	.35	9	8,581	2	2	4	0	1
Laboratory Technicians	8	.31	8	2,981	7	0	1	0	0
Total Business & Industry	650	25.52	558	7,588	207	183	149	101	10
<b>MISCELLANEOUS PROFESSIONS &amp; OTHERS</b>									
Doctors & Dentists	11	.43	-	-	1	3	3	3	1
Veterinarians	5	.20	-	-	5	0	0	0	0
Lawyers	11	.43	-	-	7	1	2	1	0
Ministers & Missionaries	11	.43	7	4,200	3	1	5	2	0
Public Officials (Government)	42	1.65	35	5,989	7	5	18	11	1
Army, Navy, and Air Force	22	.86	19	6,009	9	10	2	1	0
Students (Graduate & Professional)	46	1.81	-	-	42	2	2	0	0
Retired & Disabled	26	1.02	-	-	2	0	3	19	2
General Miscellaneous	24	.94	18	4,362	10	6	5	3	0
Totals	198	7.77	79	5,465	85	28	40	40	4
<b>GRAND TOTAL</b>	<b>2,547</b>	<b>99.99</b>	<b>1,941</b>	<b>\$ 5,909</b>	<b>1,029</b>	<b>611</b>	<b>529</b>	<b>342</b>	<b>36</b>





## CURRICULA AND MAJORS AS EDUCATIONAL PROGRAMS

The College of Agriculture has, excluding home economics, eight curricula leading to degrees and one pre-professional curriculum leading, at the end of two years, to entrance upon professional training in forestry.

The curricula are:

1. General Curriculum in Agriculture with majors in:
  - a. Agricultural Economics
  - b. Agricultural Mechanization
  - c. Agronomy
  - d. Animal Science
  - e. Dairy Science
  - f. Horticulture
  - g. General Agriculture
2. General Curriculum in Agriculture with major for teachers of Vocational Agriculture
3. Agricultural Science with options in:
  - a. Animal, plant, or soil science
  - b. Agricultural economics, rural sociology, or agricultural law
  - c. Agricultural engineering--five-year combined program in Agricultural Science and Agricultural Engineering
4. Dairy Technology
5. Floriculture
6. Food Technology
7. Horticultural Food Crops
8. Preforestry
9. Restaurant Management

Curricula are educational programs carefully planned to guide students whose educational goals are within certain related areas. They contain:

1. The basic skills or foundation courses required of all students, such as rhetoric, physical education and, for men, military training.
2. A minimum content of general education, particularly in the humanities and social sciences, widely held to be essential in any program of college education.
3. The basic sciences, including mathematics.
4. Applied courses leading to professional attainments sufficient to permit entrance to some field of professional work or more advanced training on the graduate level. Students planning graduate study should consider the curriculum in agricultural science (pages 42-47).

The following pages present the agricultural curricula and majors in outline form suitable for use as guides or check sheets. Each student should use the appropriate curriculum page to record his progress. As each course is completed, the grade can be inserted, and it will then be possible to determine the remaining requirements. When the student reaches the junior level, the Associate Dean's office sends him a check sheet showing the work yet to be completed before graduation. The student may obtain this service at any time he and his faculty adviser find need for it.

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1. *Journal of the American Medical Association*  
2. *Journal of the American Dental Association*  
3. *Journal of the American Veterinary Association*  
4. *Journal of the American Pharmaceutical Association*  
5. *Journal of the American Nurses Association*  
6. *Journal of the American Dietetic Association*  
7. *Journal of the American Physical Therapy Association*  
8. *Journal of the American Occupational Therapy Association*  
9. *Journal of the American Speech-Language-Hearing Association*  
10. *Journal of the American Music Therapy Association*  
11. *Journal of the American Association of Music Therapists*  
12. *Journal of the American Association of Music Therapists*  
13. *Journal of the American Association of Music Therapists*  
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With the exception of the curricula in agricultural science and in general agriculture, elective freedom is limited because the field of work to which each of the other curricula leads calls for specialized training of a specific character.

The general curriculum in agriculture includes a common core program for the first two years. For the junior and senior years, the student may select one of the approved departmental majors, or the vocational agriculture major; or he may continue with a broad general program by selecting the general major. This curriculum is broad and flexible with sufficient electives and majors to meet the specific needs of different students.

The curriculum in agricultural science is suited to those students desiring a stronger foundation in science, mathematics, or engineering, and it is especially recommended for all students expecting to do graduate study or enter upon advanced technical work in an agricultural industry. A student selecting the curriculum in agricultural science should ask for assignment to a faculty adviser in his field of special interest. Ordinarily this should be done by the beginning of the sophomore year. The purposes of the curricula in dairy technology, floriculture, food technology, horticultural food crops, and restaurant management are indicated by their names. Students wishing to follow these curricula or the pre-forestry curriculum should indicate this fact to the freshman section adviser or to the Associate Dean and secure an appropriate assignment of a faculty adviser. The student should refer to the University of Illinois Undergraduate Study Bulletin for course descriptions.

All students in the College of Agriculture should secure and keep for reference two printed booklets normally handed out during the first freshman registration. These booklets are (1) "University of Illinois Regulations Applying to Undergraduate Students" and (2) "Scholastic Regulations applying to Undergraduate Students, College of Agriculture." The first of these booklets contains many items of information useful to all students in the University. The second contains information about required standards of scholarship and provisions for graduation with honors in the College of Agriculture.

#### Requirements for Graduation

Students who have satisfied the general University requirements for graduation, have maintained throughout their courses a satisfactory record of scholarship and moral character, and have completed a curriculum in the College of Agriculture, including the prescribed studies and sufficient electives, are graduated with the degree of Bachelor of Science. For the degree in horticultural food crops, 136 semester hours of credit are required for graduation, including military and physical education. For the degree in food technology, the requirement for graduation is 130 hours, exclusive of the first two years of basic military and physical education. All other agriculture curricula require 130 hours, including basic military and physical education. Students who transfer from other educational institutions are required to complete in residence at least half the technical agriculture credit required for the degree; they must also complete their senior year, of not less than 30 semester hours, in residence at the University.

Chemistry. The faculty of the College of Agriculture considers chemistry an essential basic science for all students in agriculture. Much of the technical and scientific progress in agriculture has been and will continue to be based on a thorough knowledge of chemistry. In certain curricula, such as general agriculture,





teacher training, floriculture, and restaurant management, Chemistry 111 and Chemistry 132 are terminal courses and satisfy the minimum chemistry requirements for graduation. However, for certain majors and for graduate work in many fields of agriculture, additional courses in chemistry, such as Chemistry 105, 122, and 133 instead of 132, may be desirable or essential. Generally, Chemistry 111 will serve as a prerequisite to Chemistry 105 only if the student earns a grade of "A" or "B" in Chemistry 111. Chemistry 132 does not satisfy the prerequisite for Chemistry 350, Biochemistry.

Credit Restrictions. As of the present time, credit toward graduation is given for work in physical education and military training, and grades in these courses are included in the student's average. However, not more than six hours of credit in physical education may be counted toward graduation. Courses in dance, health education, and recreation are not included in this six-hour restriction.

The College of Agriculture faculty has voted to discontinue the granting of credit for service courses in physical education and to reduce the number of hours required for graduation accordingly. If this recommendation is approved by the University Senate, it will be made effective for all students entering after September 1, 1957. The physical education requirement will remain the same, but no credit will be given for physical education service courses.

No typing or shorthand courses, not more than two hours of credit in music ensemble courses, and not more than ten hours of credit in religion may be counted toward graduation.

Not more than ten hours of credit in special problems courses may be counted toward graduation in agriculture and home economics curricula. Approval of the Associate Dean, department head, and instructor is necessary for the second or third special problems course in order to avoid duplication of credit.

Grade-Average Requirements. Students who first entered the University of Illinois between October 1, 1947, and August 1, 1956, must attain a grade-point average of not less than 3.0 ("C") to qualify for the B. S. degree. All work taken, both in residence and transferred, is included in the computation of grade averages. This includes grades of "E" (failure), "ab" (absent), and "dr" (dropped). Grades of "D", "E", "ab", or "dr" always remain in the over-all average, even though the student repeats the course. Grades of "ab" and "dr" are equivalent to "E".

Effective August 1, 1956, each candidate for graduation must have an average of not less than 3.0, including grades in courses transferred from other institutions, and he must have an average of not less than 3.0 in all courses taken at the University of Illinois. Students who transfer work after August 1, 1956, will be subject to this requirement even though they may originally have enrolled in the University of Illinois prior to August 1, 1956. When a course has been repeated, both the original and subsequent grades are included in the average. (Example: If a student has completed a course with a grade of "D" and obtains the Associate Dean's permission to repeat the course, and upon second registration receives a grade of "C", both grades will be used in computing the over-all average. Credit is, however, given only once for the same course.)







## General University Requirements

Certain courses, such as rhetoric, military science (for men), and physical education, are required for all students. Unless specifically exempted, each student is expected to register for these courses each semester until he has completed the requirements in each.

Rhetoric. Satisfactory proficiency in the use of written English is a requirement for graduation. All students entering the University as freshmen directly from secondary schools are required to take a placement test in rhetoric. Those who fail the test must register in Rhetoric 100, a non-credit course. Students who receive grades of "C" or "D" in Rhetoric 102 (or its equivalent) are required to take an English qualifying examination before graduating. Those who fail to pass the qualifying examination are expected to pass an extra semester course in rhetoric (Rhetoric 200).

Military and Physical Education. Students entering the University with less than sixty semester hours of credit are required to secure four semesters of credit in physical education and military (unless otherwise exempt from the military requirement). Those who enter the University with sixty or more semester hours of credit are exempt from the requirement in physical education and basic military.

### Mathematics Requirement

The standard mathematics requirement for admission to the College of Agriculture is one year of high school algebra and one year of high school geometry. Because of the increasing importance of mathematics in everyday life and in most professions, including agriculture, the faculty of the College recommends that students include as much additional mathematics in their high school program as possible.

A minimum of one course in college algebra is required for graduation in each of the following curricula, unless the student is exempted by the mathematics placement examination: Agricultural Science, General Curriculum in Agriculture (including Vocational Agriculture), Dairy Technology, Food Technology, Horticultural Food Crops, and Preforestry.

To insure that entering students will be placed in the appropriate college mathematics course, we are now offering a mathematics placement examination. This examination is to be taken by all students entering the College of Agriculture after September 1, 1957, in any of the above-listed curricula. It is not a proficiency examination. No credit toward graduation will be given to students who pass it. Those who make a sufficiently high grade will be exempt from the algebra requirement and, if they wish or if their curriculum requires it, they may begin college mathematics with a more advanced course such as trigonometry or analytic geometry.

The examination is one hour in length, covering the usual topics of the first course in college algebra. It is given at regularly scheduled times during the late spring and early summer and during the registration period in September and February. Entering students are notified of the time and place when they apply for admission and receive their permits to enter.

The mathematics placement test should not be confused with entrance examinations. Entrance examinations are several times each year and are taken by applicants who need to remove deficiencies in specific subjects for admission.

## General Information

This document is to be used as a guide for the student in the study of the subject. It is not intended to be a substitute for the student's own study, but it is intended to be a guide for the student in the study of the subject. It is not intended to be a substitute for the student's own study, but it is intended to be a guide for the student in the study of the subject.

History. The history of the subject is a long and interesting one. It is a subject which has been studied by many of the great minds of the world. The history of the subject is a long and interesting one. It is a subject which has been studied by many of the great minds of the world. The history of the subject is a long and interesting one. It is a subject which has been studied by many of the great minds of the world.

Philosophy and General Principles. The philosophy of the subject is a long and interesting one. It is a subject which has been studied by many of the great minds of the world. The philosophy of the subject is a long and interesting one. It is a subject which has been studied by many of the great minds of the world. The philosophy of the subject is a long and interesting one. It is a subject which has been studied by many of the great minds of the world.

## Philosophy and General Principles

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A student of the subject is advised to study the subject in a systematic manner. It is a subject which has been studied by many of the great minds of the world. The history of the subject is a long and interesting one. It is a subject which has been studied by many of the great minds of the world. The history of the subject is a long and interesting one. It is a subject which has been studied by many of the great minds of the world.

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Exceptions

Students who enter with acceptable equivalent college credit in algebra are exempt from the mathematics placement examination.

Students entering the following curricula are not required to take the mathematics placement examination: Floriculture, Home Economics, and Restaurant Management.

A student who is admitted with a deficiency in high school mathematics will not take the placement examination until after he has made up his deficiency. The minimum prerequisite for Math. 111, 112, and 104 is one year of high school algebra and one year of high school geometry. At the present time Math. 101 may be taken without credit to remove a deficiency in high school algebra and Math. 102 may be taken without credit to remove a deficiency in high school geometry. A student with deficiencies must consult with the Assistant or Associate Dean concerning the appropriate course and procedure for removing his deficiency.



1. The first of the two main parts of the report is a description of the current state of the world, and the second part is a description of the future state of the world.

1. The first of these is the fact that the United States has a large and growing population of people who are not citizens of the United States. This is a result of the large number of immigrants who have come to the United States in recent years, and the fact that many of these immigrants are not naturalized citizens.

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## GENERAL CURRICULUM IN AGRICULTURE

This is a general curriculum in the sense that it provides for a common core program for the first two years. For the junior and senior years, the student may select one of the approved departmental majors or he may continue with a broad general program by selecting the general major. All students in agriculture pursue the same general core program for the first two years except those in Agricultural Science, Dairy Technology, Floriculture, Food Technology, Home Economics, Horticultural Food Crops, Preforestry, and Restaurant Management.

Freshmen may enter this general curriculum without specifying a major. Transfer students entering this curriculum with 45 or more credit hours should indicate their proposed major on the Application for Admission blank. Each student must make his choice of major not later than the beginning of the junior year and notify the College office of his choice.

The purposes, objectives, and requirements of the various majors and options are outlined on the following pages.

The core program for the first two years includes all general University requirements as well as a broad foundation in basic sciences essential to a fuller understanding of agriculture. In addition, the student has considerable freedom of choice of introductory courses in agriculture. By proper choice of Group I courses, in line with the student's ultimate objective and major, the student is ready to proceed with more advanced courses in his junior and senior years. Agriculture 100, required of all freshmen in this curriculum, is designed to assist the student in clarifying his objectives.

Upon completion of all requirements of this curriculum, with an approved major and a minimum of 130 semester hours of credit, the student is awarded the degree of Bachelor of Science in Agriculture.

Transfers should note that no credit is allowed for certain courses, such as Agricultural Economics 100 and Horticulture 100 for students with 60 or more credit hours. Agricultural Economics 220 or 230 may be substituted for Agricultural Economics 100, and Horticulture 242 or 262 may be substituted for Horticulture 100 and may be counted toward the fifteen hours required in Group I, provided the course taken as a substitute is not needed to fulfill some other agriculture group requirement in the major or option.

Agricultural Engineering 111 and 112 may be substituted for Agricultural Engineering 101, but only three hours thus earned may be counted toward the fifteen hours required in Group I. The other three hours will count as agricultural elective

Each student is encouraged to study the requirements of the various majors and options and to select the one which best fits his objectives prior to the beginning of his junior year. An appropriate adviser will then be assigned to assist him in planning his program for the junior and senior years.

Recommended or suggested electives are listed with each major. They are listed as a guide. Other courses than those shown may be taken as electives if more appropriate for the student's objective.

A general major is provided for those whose objectives do not properly fall within one of the approved departmental majors. Those who are preparing to teach vocational agriculture in high school must complete the general curriculum with a major in vocational agriculture.







## For the degree of Bachelor of Science in Agriculture

Sample Program for First Two YearsFirst Year

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Bot. 100--General Botany	4	Chem. 101, 102, or 111--Gen. Chem. <sup>4/</sup>	3-5
Rhet. 101--Rhet. & Comp. <sup>1/</sup>	3	Rhet. 102--Rhet. & Comp. <sup>1/</sup>	3
Agr. 100--Lectures for Freshmen <sup>3/</sup>	0	Math. 111, 112, or 104--Alg. or	
Agr. courses from Group I		Alg. and Trig. <sup>2/</sup>	
or Math. 111, or 112, or 104--Alg.		or Agr. course from Group I	3-5
or Alg. and Trig. <sup>2/</sup>	3-5	Zool. 104--Elementary Zoology	4
Agr. course from Group I	3	Military (men)	1
Military (men)	1	Physical Education	1
Physical Education	1		
Total	15-17	Total	15-17

Second Year

Chem. 132 or 133--Organic Chem. <sup>4/</sup>	3-5	Econ. 108--Elem. of Econ.	3
Geology 105--Agr. Geology	3	Speech 101--Prin. of Eff. Speaking <sup>1/</sup>	3
Two Agr. courses from Group I	6-7	Agr. course from Group I	3
Military (men)	1	Electives	6
Physical Education	1	Military (men)	1
		Physical Education	1
Total	15-17	Total	17

Group I - Agriculture prescribed. Agriculture 100 and a minimum of 15 hours from other courses listed below must be selected and should be completed during the first two years:

	<u>Hours</u>
Agr. 100--Lectures for Freshmen in Agriculture <sup>3/</sup>	0
Agr. Econ. 100--Introductory Agricultural Economics	3
Agr. Eng. 101--Introduction to Agricultural Engineering	3
Agronomy 121--Crop Production	4
An. Sci. 101--Introduction to Animal Science	3
An. Sci. 102 or Da. Sci. 102--Feeds and Feeding	3
Da. Sci. 100--Introduction to Dairy Production	3
Forestry 102--Farm Forestry	3
Genetics (Agron. 110, An. Sci. 110, Da. Sci. 110, or Hort. 110)--Plant and Animal Genetics	3
Hort. 100--Introductory Horticulture	3

Junior and Senior Years

For junior and senior years, see approved majors. The general requirements in addition to the courses listed for the first two years include (1) completion of all prescribed courses listed for the major, (2) completion of at least 50 hours of agriculture courses, including prescribed and elective, (3) completion of at least twelve hours of humanities and social studies (including those specifically prescribed in the student's major) and (4) completion of sufficient open electives to bring total hours to 130.

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HUMANITIES AND SOCIAL SCIENCES - A minimum of 12 hours from anthropology, art, economics, foreign language, geography, history, landscape architecture, literature, music, philosophy, political science, psychology, religion, sociology, or speech. These courses will normally be taken during the junior-senior years.

- 1/ D. G. S. 111 and 112, Verbal Communications, both four-hour courses, may be substituted for Rhetoric 101, 102, and Speech 101.
- 2/ A student in this curriculum is required to complete either Mathematics 111, Algebra, 5 hours; or Mathematics 112, College Algebra, 3 hours; or Mathematics 104, Elements of Algebra and Trigonometry, 3 hours; or pass the placement examination in mathematics. (Mathematics 104 does not serve as a prerequisite for more advanced courses in mathematics and should not be taken by those who plan to take Mathematics 114, 122, or 123, or by those who plan to major in agricultural economics general option. A student who passes the placement examination will not be required to take Mathematics 111, 112, or 104, but if he wishes he may take a more advanced course in mathematics. Students who enter the general curriculum with acceptable equivalent college credit in algebra are not required to take the placement examination or additional mathematics. See page 8 for additional details.
- 3/ A non-credit orientation course required of all freshmen in this curriculum.
- 4/ One course in organic chemistry is required. For students preparing for graduate training in animal, plant, or soil science, Chemistry 101 or 102, and Chemistry 105 and 133, are recommended. Chemistry 111 with a grade of "A" or "B" may be substituted for Chemistry 101 or 102 as a prerequisite for Chemistry 105. Chemistry 105 is a prerequisite for Chemistry 133. Chemistry 132 is not a satisfactory prerequisite for Chemistry 135, 354, and 355, Bio-Chemistry.





SUMMARY OF HOURS PRESCRIBED AND ELECTIVE  
FOR THE DEPARTMENTAL MAJORS

	1	2	3	4	5	6	7	8
	<u>Core program</u>		<u>Additional</u>		<u>Humanities</u>	<u>Additional</u>		
<u>Major</u>	<u>Agr. Pre-scribed</u>	<u>Non-Agr. Pre-scribed</u>	<u>Agr. Pre-scribed</u>	<u>Agr. Electives</u>	<u>and Social Studies</u>	<u>Non-Agr. Pre-scribed</u>	<u>Open Electives</u>	<u>Total</u>
Agr. Econ.	15-16	37-46	17-20	18-14	12	5	26-17	130
Farm Mgmt. Option	15-16	37-46	22-28	13-6	12	-	31-22	130
Mktg. Option	15-16	37-46	17-20	18-14	12	6	25-16	130
Rur. Soc. Option	15-16	37-46	17-20	18-14	12	-	31-22	130
Agr. Mechan.	15-16	37-46	23-26	12-8	12	15	16-7	130
Agron.	15-16	37-46	25-32	10-2	12	-	31-22	130
An. Sci.	15-16	37-46	23-34	12-0	12	6	25-16	130
Da. Sci.	15-16	37-46	23-32	12-2	12	6	25-16	130
Hort.	15-16	37-46	26-32	9-2	12	5	26-17	130
Voc. Agr.	15-16	37-46	21-27	14-7	12	19	12-3	130
Gen Agr.	15-16	37-46	23	12-11	12	-	31-22	130

Col. 1. Range depends upon the courses selected from Group 1.

Col. 2. Range depends upon selection of chemistry and mathematics courses.

Col. 3. Range depends upon additional Group 1 courses required for major.

Col. 4. Range depends upon hours of agriculture required to total 50.

Col. 7. Range depends upon additional hours required to equal 130.

The hours prescribed by various groups will vary somewhat from these figures, depending upon the exact number of hours transferred and accepted in substitution for prescribed courses.





**MAJOR IN AGRICULTURAL ECONOMICS--FARM MANAGEMENT OPTION**

This option is designed particularly for persons interested in farming or in managing agricultural properties for others. It is also appropriate for men interested in agricultural positions with banks, credit agencies, and other agricultural institutions.

For core requirements see page 11. Other courses required for this option are:

<u>Prescribed Courses in Agriculture</u>	<u>Semester</u>	<u>Hours</u>
Agr. Economics 100 <sup>1/</sup> --Intro. Agricultural Economics (I,II)		3
An. Sci. or Da. Sci. 102--Feeds and Feeding (I,II)		3
Agronomy 201--Soils (I,II)		5
Agr. Economics 220--Farm Management (I,II)		3
Agr. Economics 324--Farm Operation (II)		3
Agr. Economics 325--Advanced Farm Management (I)		3
Additional Agricultural Economics		8

Elective courses in Agriculture to bring total Agriculture to a minimum of fifty hours

Humanities and Social Sciences (see page 12 for definition) 12

Must include:

Economics 109--Principles of Economics I, II 3

Open Electives to Bring Total Hours to: 130

Suggested Agriculture Electives

Agricultural Economics 230, 302, 303, 305, 312, 341, 342

Agricultural Engineering 252, 272

Agronomy 301, 306

Animal or Dairy Science (one or more courses)

Entomology 101

Rural Sociology 117 (students with credit in Soc. 100 may wish to substitute Rural Soc. 277, 317, or 377)

Suggested Non-Agriculture Electives

Accountancy 201

Economics 170

Geography 105

History 152

Mathematics 114

Philosophy 101, 102

Political Science 150

Psychology 100, 255

Rhetoric 151

<sup>1/</sup> Juniors or seniors should substitute Agr. Econ. 230.

ARTICLE 11. RESPONSIBILITY OF THE GENERAL ASSEMBLY

1. The General Assembly shall consider and make recommendations on the basis of the reports of the Secretary-General and the reports of the organs of the United Nations.

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## General Curriculum with Major in AGRICULTURAL ECONOMICS

15.

Farm Management Option  
(for degree of B.S. in Agriculture)COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_

DATE \_\_\_\_\_

AGRICULTURE PRESCRIBED:		GRADE	8 HOURS OF AGR. ECON. ELECTIVES (Total Agr. Econ. must equal 20 hours)		
Agr. 100	0				
Agr. Econ. 100	3				
Agr. Econ. 220	3				
Agr. Econ. 324	3				
Agr. Econ. 325	3				
Agron. 201	5				
An. Sci. 102 or Da. Sci. 102	3		AGRICULTURE ELECTIVES--Total Agr. prescribed and electives must equal at least 50 hours.		At least 25 hours of Agr must be com- pleted in residence.
9 HOURS FROM:					
Agr. Eng. 101	3				Transfer:
Agron. 121	4				
An. Sci. 101	3				Residence:
Da. Sci. 100	3				
Forestry 102	3				Earned:
Hort. 100	3				
Agron. 110, An. Sci. 110, Da. Sci. 110, or Hort. 110	3				To be earned:
NON-AGRICULTURE PRESCRIBED:					
Botany 100	4				
Chem. 101, 102, or 11	3-5				
Chem. 132 or 133	3-5				
Econ. 108	3		HUMANITIES AND SOCIAL SCIENCES--12 hours from anthro., art, econ., for. lang., geog., hist., land. arch., lit., music, phil., pol. sci., psych., religion, soc., and speech.		
Geology 105	3				
Math. Placement Test or Math. 111, 112, or 104	3-5		MUST INCLUDE: Econ. 109	3	Earned:
Rhetoric 101	3				To be earned:
Rhetoric 102	3				
Speech 101	3		OPEN ELECTIVES:		
Zoology 104	4				TOTAL HOURS
Mil.-Mil.	1-1				
Mil.-Mil.	1-1				
P.E.-P.E.	1-1				
P.E.-P.E.	1-1				

130 hours, inclusive of regular military and P.E., are required for the degree as outlined above. Minimum average of 3.0 is required for graduation. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at U. of I. and a combined average of 3.0 for transfer and University of Illinois work.





## MAJOR IN AGRICULTURAL ECONOMICS--AGRICULTURAL MARKETING OPTION

Students interested in marketing farm products and farm supplies may major under this option. Numerous opportunities exist for agricultural college graduates in salesmanship, in price analysis, and in the management and operational phases of agricultural and related businesses.

For common core requirements see page 11. Other courses required for this option are:

<u>Prescribed Courses in Agriculture</u>	<u>Semester</u>	<u>Hours</u>
Agr. Economics 100 <sup>1/</sup> --Introd. Agricultural Economics (I,II)		3
Agr. Economics 230--Marketing of Agricultural Products (I,II)		3
Six hours from the following:		
Agr. Economics 331--Grain Marketing (I)		3
Agr. Economics 332--Livestock Marketing (II)		3
Agr. Economics 333--Marketing Horticultural Products (I)		3
Agr. Economics 334--Marketing Dairy Products (II)		3
Additional Agricultural Economics		8

Elective courses in Agriculture to bring total Agriculture to a minimum of fifty hours

<u>Humanities and Social Sciences</u> (see page 12 for definition)	12
Must include:	
Economics 109--Principles of Economics (I,II)	3
Economics 170--Elements of Statistics (I,II)	3
Economics 313--Economics of Consumption (II)	3

<u>Non-Agriculture Prescribed</u>	
Accountancy 201--Fundamentals of Accounting (I,II)	3
Rhetoric 151--Business Letter Writing (I,II)	3

<u>Open Electives to Bring Total Hours to:</u>	130
--	-----

<u>Suggested Agriculture Electives</u>	
Agricultural Economics 220, 305, 341, 342	
Agronomy 306, 321	
Animal Science or Dairy Science (one or more courses)	
Food Technology 260 or Animal Science 104	
Horticulture 242 or 262	
Rural Sociology 117 <sup>2/</sup> or 297	

<u>Suggested Non-Agriculture Electives</u>	
Geography 105	
Marketing 211	

<sup>1/</sup> Juniors and seniors should substitute Agr. Econ. 220 for Agr. Econ. 100.

<sup>2/</sup> Students with credit in Soc. 100 may take Rural Soc. 277, 317, or 377 instead of Rural Soc. 117.

SECTION 1. PURPOSE AND SCOPE

This document is intended to provide information regarding the security of the system. It is not to be distributed outside the organization.

The purpose of this document is to provide information regarding the security of the system. It is not to be distributed outside the organization.

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## 17.

NAME \_\_\_\_\_  
DATE \_\_\_\_\_

130 hours, inclusive of regular military and P. E., are required for the degree as outlined above. Minimum average of 3.0 is required for graduation. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at U. of I. and a combined average of 3.0 for transfer and University of Illinois work.





## MAJOR IN AGRICULTURAL ECONOMICS--GENERAL OPTION

This option is designed for students who desire training in agricultural economics without specializing in any particular subject-matter area. It is also appropriate as preparation for analytical and statistical work with agricultural businesses or public agencies.

For core requirements see page 11. Other courses required for this option are:

<u>Prescribed courses in Agriculture</u>	<u>Semester</u>	<u>Hours</u>
Agr. Economics 100 <sup>1/</sup> --Introductory Agricultural Economics (I,II)		3
Nine hours from the following:		
Rural Soc. 117--Introduction to Rural Sociology (I,II)		3
Agr. Economics 218--Land Economics (II)		3
Agr. Economics 220--Farm Management (I,II)		3
Agr. Economics 230--Marketing of Agricultural Products (I,II)		3
Agr. Economics 302--Financing Agriculture (II)		3
Agr. Economics 303--Agricultural Law (I,II)		3
Agr. Economics 305--Agricultural Development and Policies (I)		3
Agr. Economics 341--Agricultural Statistics (I)		3
Additional Agricultural Economics		8
Elective courses in Agr. to bring total Agr. to a minimum of 50 hours		
<u>Humanities and Social Sciences</u> (see page 12 for definition)		12
Must include:		
Economics 109--Principles of Economics (I, II)		3
Pol. Sci. 150--American Government: Organization and Powers (I, II)		3
One of the following:		
Philos. 101--Introduction to Philosophy (I, II)		3
Philos. 102--Logic (I, II)		3
Philos. 104--Philosophy of Democracy (II)		4
<u>Non-Agriculture Prescribed</u>		
Accy. 201--Fundamentals of Accounting (I, II)		3
Math. 114 <sup>2/</sup> --Plane Trigonometry (I, II)		2
<u>Open Electives to Bring Total Hours to:</u>		130

Suggested Agriculture Electives

Agricultural Economics 312, 324, 325, 342  
 Agricultural Economics--one or more commodity marketing courses  
 Agricultural Engineering 131  
 Agriculture 114  
 Agronomy 201, 306  
 Animal Science or Dairy Science (one or more courses)  
 Rural Sociology 277

Suggested Non-Agriculture Electives

Economics 214  
 Psychology 100  
 Rhetoric 151  
 Speech 113

<sup>1/</sup> Juniors and seniors should substitute Agr. Econ. 220 or 230.

<sup>2/</sup> Students in this option who do not pass the Mathematics Placement Test should take Math. 111 or 112, but not 104.



STATE OF CALIFORNIA - 1900

The report is divided into two parts: the first part is devoted to the general condition of the State, and the second part is devoted to the details of the various departments. It is also divided into two parts: the first part is devoted to the general condition of the State, and the second part is devoted to the details of the various departments.

The report is divided into two parts: the first part is devoted to the general condition of the State, and the second part is devoted to the details of the various departments.

Year	Amount	Total
1900	1,000,000.00	1,000,000.00
1901	1,200,000.00	1,200,000.00
1902	1,400,000.00	1,400,000.00
1903	1,600,000.00	1,600,000.00
1904	1,800,000.00	1,800,000.00
1905	2,000,000.00	2,000,000.00
1906	2,200,000.00	2,200,000.00
1907	2,400,000.00	2,400,000.00
1908	2,600,000.00	2,600,000.00
1909	2,800,000.00	2,800,000.00
1910	3,000,000.00	3,000,000.00
1911	3,200,000.00	3,200,000.00
1912	3,400,000.00	3,400,000.00
1913	3,600,000.00	3,600,000.00
1914	3,800,000.00	3,800,000.00
1915	4,000,000.00	4,000,000.00
1916	4,200,000.00	4,200,000.00
1917	4,400,000.00	4,400,000.00
1918	4,600,000.00	4,600,000.00
1919	4,800,000.00	4,800,000.00
1920	5,000,000.00	5,000,000.00
1921	5,200,000.00	5,200,000.00
1922	5,400,000.00	5,400,000.00
1923	5,600,000.00	5,600,000.00
1924	5,800,000.00	5,800,000.00
1925	6,000,000.00	6,000,000.00
1926	6,200,000.00	6,200,000.00
1927	6,400,000.00	6,400,000.00
1928	6,600,000.00	6,600,000.00
1929	6,800,000.00	6,800,000.00
1930	7,000,000.00	7,000,000.00
1931	7,200,000.00	7,200,000.00
1932	7,400,000.00	7,400,000.00
1933	7,600,000.00	7,600,000.00
1934	7,800,000.00	7,800,000.00
1935	8,000,000.00	8,000,000.00
1936	8,200,000.00	8,200,000.00
1937	8,400,000.00	8,400,000.00
1938	8,600,000.00	8,600,000.00

## General Curriculum with Major in AGRICULTURAL ECONOMICS

## General Option

(for degree of B.S. in Agriculture)

19.

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_

DATE \_\_\_\_\_

AGRICULTURE PRESCRIBED:		HOURS	GRADE	9 HOURS FROM: Rural Soc. 117, Agr. Econ. 218, 220, 230, 302, 303, 305, 341.	
Agr. 100		0			
Agr. Econ. 100		3			
12 HOURS FROM:					
Agr. Eng. 101		3			
Agron. 121		4			
An. Sci. 101		3		8 HOURS OF AGR. ECON. ELECTIVES	At least 25 hours of Agr. must be completed in residence.
An. Sci. 102 or Da. Sci. 102		3		(Total Agr. Econ. must equal 20 hrs.)	
Da. Sci. 100		3			
Forestry 102		3			
Hort. 100		3			
Agron. 110, An. Sci. 110, Da. Sci. 110, or Hort. 110		3		AGRICULTURE ELECTIVES--Total Agr. prescribed and electives must equal at least 50 hours.	Transfer: Residence:
NON-AGRICULTURE PRESCRIBED:					
Accy. 201		3			Earned:
Botany 100		4			To be earned:
Chem. 101, 102, or 111		3-5			
Chem. 132 or 133		3-5		HUMANITIES AND SOCIAL SCIENCES--12 hours from anthro., art, econ., for. lang., geog., hist., land. arch., lit., music, phil., pol. sci., psych., religion, soc., and speech.	
Econ. 108		3		MUST INCLUDE:	
Geology 105		3		Econ. 109	3 Earned:
Math. Placement Test or Math. 111 or 112		3-5		Pol. Sci. 150	3
Math. 114		2		Philos. 101, 102, or 104	3-4 To be earned:
Rhetoric 101		3			
Rhetoric 102		3			
				OPEN ELECTIVES:	
Speech 101		3			TOTAL HOURS
Zoology 104		4			
Mil.-Mil.		1-1			
Mil.-Mil.		1-1			
P.E.-P.E.		1-1			
P.E.-P.E.		1-1			

130 hours, inclusive of regular military and P.E., are required for the degree as outlined above. Minimum average of 3.0 is required for graduation. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at U. of I. and a combined average of 3.0 for transfer and University of Illinois work.





**MAJOR IN AGRICULTURAL ECONOMICS--RURAL SOCIOLOGY OPTION**

The rural sociology option is designed primarily to prepare students for effective rural group leadership in a variety of organizations and agencies serving agriculture and rural communities.

For core requirements see page 11. Other courses required for this option are:

<u>Prescribed Courses in Agriculture</u>	<u>Semester</u>	<u>Hours</u>
Agr. Econ. 100 <sup>1</sup> / -Introductory Agricultural Economics (I, II)		3
Rural Soc. 117 <sup>2</sup> /--Introd. to Rural Sociology (I, II)		3
Rural Soc. 277--Rural Social Problems (II)		3
Rural Soc. 297--Farmer Movements, Farmers' Organizations and Social Policy (I)		3
Additional Rural Sociology or Agricultural Economics		8

Elective courses in Agriculture to bring total Agriculture to a minimum of fifty hours.

Humanities and Social Sciences (see page 12 for definition) 12

Must include:

Economics 109--Principles of Economics (I, II)	3
Soc. 222--Theory and Analysis of Formal Organization (I, II)	3
Soc. 281--Contemporary Sociology (I,II)	3

Open Electives to Bring Total Hours to: 130

Suggested Agriculture Electives

Agricultural Economics 218, 220, 230, 273, 303, 305, 312, 341, 342  
 Agriculture 114  
 Agronomy 321  
 Animal Science or Dairy Science (one or more courses)

Suggested Non-Agriculture Electives

Anthropology 103  
 Economics 214, 300, 336  
 Education 315  
 Geography 104  
 Philosophy 101  
 Pol. Sci. 150  
 Psychology 100, 255  
 Sociology 212, 220, 270  
 Speech 113

<sup>1</sup>/ Juniors and seniors should substitute Agr. Econ. 220 or 230.

<sup>2</sup>/ Students with credit in Sociol. 100 should substitute Rural Sociol. 317 or 377.

UNITED STATES DEPARTMENT OF AGRICULTURE

The following information is furnished for the purpose of providing a basis for the selection of a suitable site for the construction of a new building.

The following information is furnished for the purpose of providing a basis for the selection of a suitable site for the construction of a new building.

General Information is furnished

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General Information is furnished

The following information is furnished for the purpose of providing a basis for the selection of a suitable site for the construction of a new building.

General Curriculum with Major in AGRICULTURAL ECONOMICS  
Rural Sociology Option  
(for degree of B.S. in Agriculture)

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_

DATE \_\_\_\_\_

AGRICULTURE PRESCRIBED:	HOURS	GRADE	8 HOURS OF RUR. SOC. OR AGR. ECON. ELECTIVES (Total Agr. Econ. must equal 20 hours)	
Agr. 100	0			
Agr. Econ. 100	3			
Rur. Soc. 117	3			
Rur. Soc. 277	3			
Rur. Soc. 297	3			
12 HOURS FROM:			AGRICULTURE ELECTIVES--Total	At least 25
Agr. Eng. 101	3		Agr. prescribed and electives	hours of Agr.
Agron. 121	4		must equal at least 50 hours.	must be com-
An. Sci. 101	3			pleted in
An. Sci. 102 or	3			residence
Da. Sci. 102				Transfer:
Da. Sci. 100	3			Residence:
Forestry 102	3			
Hort. 100	3			Earned:
Agron. 110, An. Sci. 110,	3			To be
Da. Sci. 110, or Hort. 110				earned:
NON-AGRICULTURE PRESCRIBED:				
Botany 100	4			
Chem. 101, 102, or 111	3-5			
Chem. 132 or 133	3-5		HUMANITIES AND SOCIAL SCIENCES--12 hours	
Econ. 108	3		from: anthro., art, econ., for. lang., geog.,	
Geology 105	3		hist., land. arch., lit., music, phil.,	
Math. Placement Test or			pol. sci., psych., religion, soc., and	
Math. 111, 112, or 104	3-5		speech.	
			MUST INCLUDE:	Earned:
			Econ. 109	3
			Soc. 222	3
			Soc. 281	3
				To be
				earned:
Rhetoric 101	3			
Rhetoric 102	3			
			OPEN ELECTIVES:	
Speech 101	3			
Zoology 104	4			
Mil.-Mil.	1-1			TOTAL HOURS
Mil.-Mil.	1-1			
P.E.-P.E.	1-1			
P.E. P.E.	1-1			

130 hours, inclusive of regular military and P. E., are required for the degree as outlined above. Minimum average of 3.0 is required for graduation. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at U. of I. and a combined average of 3.0 for transfer and University of Illinois work.





## MAJOR IN AGRICULTURAL MECHANIZATION

For students who are interested in non-technical emphasis in the areas of farm structures, conservation, farm power and farm machinery, in preparation for work with service organizations, retail dealers, power suppliers, contractors, farm management companies, or as farm operators. This major is administered in the College of Agriculture by the Department of Agricultural Engineering. Students interested in a program leading to a degree in Agricultural Engineering should follow the four-year program in the College of Engineering or the five-year combined program in Agricultural Science and Agricultural Engineering administered jointly by the College of Agriculture and the College of Engineering (see page 44).

For common core requirements of this major see page 11. Other courses required for this major are:

<u>Prescribed Courses in Agriculture</u>	<u>Semester</u>	<u>Hours</u>
Agr. Eng. 101--Introduction to Agricultural Engineering (I, II)		3
Agr. Economics 220--Farm Management (I, II)		3
Agronomy 201--Soils (I, II)		5
Fifteen hours from the following:		
Agr. Eng. 131--Field and Power-Driven Machinery (I)		3
Agr. Eng. 142--Gas Engines and Tractors (II)		3
Agr. Eng. 200--Farm Shop: Carpentry and Construction (I, II)		3
Agr. Eng. 241--Electric Power for the Farm (I)		3
Agr. Eng. 242--Gasoline, Liquid Petroleum Gas, and Diesel Tractors (I)		3
Agr. Eng. 252--Mechanics of Soil and Water Conservation (II)		3
Agr. Eng. 272--Farm Buildings (II)		3
Agr. Eng. 361--Development and Function of Family Housing (II)		3
Agr. Eng. 381--Farm Electrical Equipment (II)		3
Agr. Eng. 393--Special Problems (I, II)		3

Elective courses in Agriculture to bring total Agriculture to a minimum of fifty hours.

<u>Humanities and Social Sciences</u> (see page 12 for definition)	12
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Prescribed Non-Agriculture Courses

Fifteen hours from the following:

Accountancy 201--Fundamentals of Accounting (I, II)	3
Business Law 261--Summary of Business Law (I, II)	3
Management 101--Industrial Organization and Management (I, II)	3
Management 248--Personnel Administration (I, II)	3
Marketing 101--Principles of Marketing (I, II)	3
Marketing 211--Principles of Retailing (I, II)	3
Marketing 212--Retail Sales Promotion (I, II)	2
Marketing 271--Salesmanship (I, II)	2
Rhetoric 151--Business Letter Writing (I, II)	3
Rhetoric 271--Sales Writing (Journ. 288, Mktg. 288) (I, II)	2

<u>Open Electives to Bring Total Hours to:</u>	130
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Recommended Agriculture Electives

Agr. Econ. 302, 303, 312, 324, 325, 341, 342
Agronomy 305, 306, 307, 311





COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_

DATE \_\_\_\_\_

AGRICULTURE PRESCRIBED:		HOURS	GRADE	15 HOURS FROM: Agr. Eng. 131, 142, 200, 241, 242, 252, 272, 361, 381, 393		
Agr. 100		0				
Agr. Econ. 220		3				
Agr. Eng. 101		3				
Agron. 201		5				
12 HOURS FROM:						
Agr. Econ. 100		3				At least 25 hours of Agr. must be completed in residence.
Agron. 121		4				
An. Sci. 101		3				
An. Sci. 102 or Da. Sci. 102		3				
Da. Sci. 100		3		AGRICULTURE ELECTIVE--Total Agr. prescribed and electives must equal at least 50 hours.		
Forestry 102		3				Transfer:
Hort. 100		3				Residence:
Agron. 110, An. Sci. 110, Da. Sci. 110, or Hort. 110		3				Earned:
						To be earned:
NON-AGRICULTURE PRESCRIBED:				15 HOURS FROM: Accy. 201; Bus. Law 261; Mgmt. 101, 248; Mktg. 101, 211, 212, 271; Rhet. 151, 271:		
Botany 100		4				
Chem. 101, 102, or 111		3-5				Earned:
Chem. 132 or 133		3-5				
Econ. 108		3				To be earned:
Geology 105		3				
Math. Placement Test or Math. 111, 112, or 104		3-5				
				HUMANITIES AND SOCIAL SCIENCES--12 hours from: anthro., art, econ., for. lang., geog., hist., land. arch., lit., music, phil., pol. sci., psych., religion, soc., and speech.		
Rhetoric 101		3				Earned:
Rhetoric 102		3				
Speech 101		3				To be earned:
Zoology 104		4				
				OPEN ELECTIVES:		
Mil.-Mil.		1-1				TOTAL HOURS
Mil.-Mil.		1-1				
P.E.-P.E.		1-1				
P.E.-P.E.		1-1				

130 hours, inclusive of regular military and P.E., are required for the degree as outlined above. Minimum average of 3.0 is required for graduation. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at U. of I. and a combined average of 3.0 for transfer and University of Il-



## General Curriculum in Agriculture, cont.

## MAJOR IN AGRONOMY--OPTIONS IN CROPS OR SOILS

This major is designed for students who wish to specialize in crops and/or soils. For those who may desire later to pursue graduate work, adequate training may be obtained by suitable choices of electives within the framework of this major, or in the agricultural science curriculum.

For common core requirements see page 11. Other courses required in this major are:

<u>Prescribed Courses in Agriculture</u>	<u>Semester</u>	<u>Hours</u>
Agronomy 121--Crop Production (I, II)		4
Agronomy 110 <sup>1</sup> --Plant and Animal Genetics (I, II)		3
Agronomy 201--Soils (I, II)		5
Agronomy 302--Role of Microorganisms in Soil Fertility (I)		3
Agronomy 311--Physical Edaphology (II)		3
Agronomy 321--Crop Ecology (I)		3
Agronomy 377 <sup>1</sup> --Diseases of Field Crops (II)		3
Agronomy electives (all Agronomy majors must complete twenty hours of Agronomy in addition to Agronomy 121 and 201)		5 to 11

Elective courses in Agriculture to bring total Agriculture to a minimum of fifty hours.

<u>Humanities and Social Sciences</u> (see page 12 for definition)	12
Must include <u>one</u> of the following:	
History 152--History of the United States, 1865 to Present (I, II)	3
or Pol. Sci. 150--American Government: Organization and Powers (I, II)	3

<u>Open Electives to Bring Total Hours to:</u>	130
--	-----

Suggested Agriculture Electives

Agronomy courses other than those listed or taken to satisfy the requirements

Agriculture 216

Agricultural Economics 220, 325, 303

Agricultural Engineering 252

Animal Science 201

Suggested Non-Agriculture Electives

Botany 130, 160, 226, 304, 320

Chemistry 105, 122, 354, or 350 and 355

Mathematics 117<sup>1</sup>, 127<sup>2</sup>

Physics 101, 102

<sup>1</sup>/ Agronomy 110 and 377 are required in the crops option only.

<sup>2</sup>/ Students who have completed Mathematics 111 or 112 or their equivalent should take Mathematics 114, 122, and 132 rather than Mathematics 117 and 127



THEORY OF ATOMS - PART I

This paper is devoted to the study of the structure of matter, and to the question of the origin of the elements. The first part of the paper is devoted to the study of the structure of matter, and to the question of the origin of the elements. The second part of the paper is devoted to the study of the structure of matter, and to the question of the origin of the elements.

Element	Atomic Weight	Symbol
Hydrogen	1	H
Helium	4	He
Lithium	7	Li
Beryllium	9	Be
Boron	11	B
Carbon	12	C
Nitrogen	14	N
Oxygen	16	O
Fluorine	19	F
Neon	20	Ne
Sodium	23	Na
Magnesium	24	Mg
Aluminum	27	Al
Silicon	28	Si
Phosphorus	31	P
Sulfur	32	S
Chlorine	35.5	Cl
Argon	39.9	Ar
Potassium	39	K
Calcium	40	Ca
Scandium	45	Sc
Titanium	48	Ti
Vanadium	51	V
Chromium	52	Cr
Manganese	55	Mn
Iron	56	Fe
Cobalt	59	Co
Nickel	58.7	Ni
Copper	63.5	Cu
Zinc	65.4	Zn
Gallium	69.7	Ga
Germanium	72.6	Ge
Arsenic	75	As
Selenium	79	Se
Bromine	80	Br
Krypton	83.8	Kr
Rubidium	85.5	Rb
Strontium	87.6	Sr
Yttrium	88.9	Y
Zirconium	91.2	Zr
Niobium	92.9	Nb
Molybdenum	95.9	Mo
Technetium	98	Tc
Ruthenium	101	Ru
Rhodium	103	Rh
Palladium	106	Pd
Silver	108	Ag
Cadmium	112	Cd
Indium	115	In
Tin	119	Sn
Antimony	122	Sb
Tellurium	128	Te
Iodine	127	I
Xenon	131.3	Xe
Cesium	133	Cs
Barium	137.4	Ba
Lanthanum	139	La
Cerium	140.1	Ce
Praseodymium	140.9	Pr
Neodymium	144.2	Nd
Europium	152	Eu
Gadolinium	157.3	Gd
Terbium	158.9	Tb
Dysprosium	162.5	Dy
Ho	164.9	Ho
Erbium	167.3	Er
Thulium	168.9	Tm
Ytterbium	173	Yb
Lutetium	175	Lu
Hafnium	178.5	Hf
Tantalum	181	Ta
Tungsten	183.9	W
Rhenium	186.2	Re
Osmium	190.2	Os
Iridium	192.2	Ir
Platinum	195.1	Pt
Gold	197	Au
Mercury	200.6	Hg
Thallium	204	Tl
Lead	207.2	Pb
Bismuth	209	Bi
Polonium	210	Po
Astatine	210	At
Radium	226	Ra
Actinium	227	Ac
Thorium	232	Th
Protactinium	231	Pa
Uranium	238	U
Neptunium	237	Np
Plutonium	244	Pu
Americium	243	Am
Curium	247	Cm
Berkelium	247	Bk
Californium	250	Cf
Einsteinium	252	Es
Fermium	253	Fm
Mendelevium	258	Md
Nobelium	259	No
Lawrencium	260	Lr
Rutherfordium	261	Rf
Dubnium	262	Db
Seaborgium	266	Sg
Bohrium	264	Bh
Hassium	277	Hs
Meitnerium	268	Mt
Darmstadtium	271	Ds
Röntgenium	272	Rg
Ununseptium	289	Uus
Unbihexium	288	Uub
Untriseptium	293	Uut
Unquadrupium	294	Uuq
Unpentium	299	Uup
Unsextium	301	Uus
Unseptium	304	Uus
Unoctium	307	Uuo
Unnennium	315	Uun
Undecium	318	Uud
Undecium	321	Uud
Untridecium	326	Uut
Unquadrupium	329	Uuq
Unpentium	331	Uup
Unsextium	334	Uus
Unseptium	337	Uus
Unoctium	341	Uuo
Unnennium	348	Uun
Undecium	351	Uud
Undecium	354	Uud
Untridecium	357	Uut
Unquadrupium	360	Uuq
Unpentium	363	Uup
Unsextium	366	Uus
Unseptium	369	Uus
Unoctium	372	Uuo
Unnennium	375	Uun
Undecium	378	Uud
Undecium	381	Uud
Untridecium	384	Uut
Unquadrupium	387	Uuq
Unpentium	390	Uup
Unsextium	393	Uus
Unseptium	396	Uus
Unoctium	399	Uuo
Unnennium	402	Uun
Undecium	405	Uud
Undecium	408	Uud
Untridecium	411	Uut
Unquadrupium	414	Uuq
Unpentium	417	Uup
Unsextium	420	Uus
Unseptium	423	Uus
Unoctium	426	Uuo
Unnennium	429	Uun
Undecium	432	Uud
Undecium	435	Uud
Untridecium	438	Uut
Unquadrupium	441	Uuq
Unpentium	444	Uup
Unsextium	447	Uus
Unseptium	450	Uus
Unoctium	453	Uuo
Unnennium	456	Uun
Undecium	459	Uud
Undecium	462	Uud
Untridecium	465	Uut
Unquadrupium	468	Uuq
Unpentium	471	Uup
Unsextium	474	Uus
Unseptium	477	Uus
Unoctium	480	Uuo
Unnennium	483	Uun
Undecium	486	Uud
Undecium	489	Uud
Untridecium	492	Uut
Unquadrupium	495	Uuq
Unpentium	498	Uup
Unsextium	501	Uus
Unseptium	504	Uus
Unoctium	507	Uuo
Unnennium	510	Uun
Undecium	513	Uud
Undecium	516	Uud
Untridecium	519	Uut
Unquadrupium	522	Uuq
Unpentium	525	Uup
Unsextium	528	Uus
Unseptium	531	Uus
Unoctium	534	Uuo
Unnennium	537	Uun
Undecium	540	Uud
Undecium	543	Uud
Untridecium	546	Uut
Unquadrupium	549	Uuq
Unpentium	552	Uup
Unsextium	555	Uus
Unseptium	558	Uus
Unoctium	561	Uuo
Unnennium	564	Uun
Undecium	567	Uud
Undecium	570	Uud
Untridecium	573	Uut
Unquadrupium	576	Uuq
Unpentium	579	Uup
Unsextium	582	Uus
Unseptium	585	Uus
Unoctium	588	Uuo
Unnennium	591	Uun
Undecium	594	Uud
Undecium	597	Uud
Untridecium	600	Uut
Unquadrupium	603	Uuq
Unpentium	606	Uup
Unsextium	609	Uus
Unseptium	612	Uus
Unoctium	615	Uuo
Unnennium	618	Uun
Undecium	621	Uud
Undecium	624	Uud
Untridecium	627	Uut
Unquadrupium	630	Uuq
Unpentium	633	Uup
Unsextium	636	Uus
Unseptium	639	Uus
Unoctium	642	Uuo
Unnennium	645	Uun
Undecium	648	Uud
Undecium	651	Uud
Untridecium	654	Uut
Unquadrupium	657	Uuq
Unpentium	660	Uup
Unsextium	663	Uus
Unseptium	666	Uus
Unoctium	669	Uuo
Unnennium	672	Uun
Undecium	675	Uud
Undecium	678	Uud
Untridecium	681	Uut
Unquadrupium	684	Uuq
Unpentium	687	Uup
Unsextium	690	Uus
Unseptium	693	Uus
Unoctium	696	Uuo
Unnennium	699	Uun
Undecium	702	Uud
Undecium	705	Uud
Untridecium	708	Uut
Unquadrupium	711	Uuq
Unpentium	714	Uup
Unsextium	717	Uus
Unseptium	720	Uus
Unoctium	723	Uuo
Unnennium	726	Uun
Undecium	729	Uud
Undecium	732	Uud
Untridecium	735	Uut
Unquadrupium	738	Uuq
Unpentium	741	Uup
Unsextium	744	Uus
Unseptium	747	Uus
Unoctium	750	Uuo
Unnennium	753	Uun
Undecium	756	Uud
Undecium	759	Uud
Untridecium	762	Uut
Unquadrupium	765	Uuq
Unpentium	768	Uup
Unsextium	771	Uus
Unseptium	774	Uus
Unoctium	777	Uuo
Unnennium	780	Uun
Undecium	783	Uud
Undecium	786	Uud
Untridecium	789	Uut
Unquadrupium	792	Uuq
Unpentium	795	Uup
Unsextium	798	Uus
Unseptium	801	Uus
Unoctium	804	Uuo
Unnennium	807	Uun
Undecium	810	Uud
Undecium	813	Uud
Untridecium	816	Uut
Unquadrupium	819	Uuq
Unpentium	822	Uup
Unsextium	825	Uus
Unseptium	828	Uus
Unoctium	831	Uuo
Unnennium	834	Uun
Undecium	837	Uud
Undecium	840	Uud
Untridecium	843	Uut
Unquadrupium	846	Uuq
Unpentium	849	Uup
Unsextium	852	Uus
Unseptium	855	Uus
Unoctium	858	Uuo
Unnennium	861	Uun
Undecium	864	Uud
Undecium	867	Uud
Untridecium	870	Uut
Unquadrupium	873	Uuq
Unpentium	876	Uup
Unsextium	879	Uus
Unseptium	882	Uus
Unoctium	885	Uuo
Unnennium	888	Uun
Undecium	891	Uud
Undecium	894	Uud
Untridecium	897	Uut
Unquadrupium	900	Uuq
Unpentium	903	Uup
Unsextium	906	Uus
Unseptium	909	Uus
Unoctium	912	Uuo
Unnennium	915	Uun
Undecium	918	Uud
Undecium	921	Uud
Untridecium	924	Uut
Unquadrupium	927	Uuq
Unpentium	930	Uup
Unsextium	933	Uus
Unseptium	936	Uus
Unoctium	939	Uuo
Unnennium	942	Uun
Undecium	945	Uud
Undecium	948	Uud
Untridecium	951	Uut
Unquadrupium	954	Uuq
Unpentium	957	Uup
Unsextium	960	Uus
Unseptium	963	Uus
Unoctium	966	Uuo
Unnennium	969	Uun
Undecium	972	Uud
Undecium	975	Uud
Untridecium	978	Uut
Unquadrupium	981	Uuq
Unpentium	984	Uup
Unsextium	987	Uus
Unseptium	990	Uus
Unoctium	993	Uuo
Unnennium	996	Uun
Undecium	999	Uud

THEORY OF ATOMS - PART II

1	Hydrogen	1	H
2	Helium	4	He
3	Lithium	7	Li
4	Beryllium	9	Be
5	Boron	11	B
6	Carbon	12	C
7	Nitrogen	14	N
8	Oxygen	16	O
9	Fluorine	19	F
10	Neon	20	Ne
11	Sodium	23	Na
12	Magnesium	24	Mg
13	Aluminum	27	Al
14	Silicon	28	Si
15	Phosphorus	31	P
16	Sulfur	32	S
17	Chlorine	35.5	Cl
18	Argon	39.9	Ar
19	Potassium	39	K
20	Calcium	40	Ca
21	Scandium	45	Sc
22	Titanium	48	Ti
23	Vanadium	51	V
24	Chromium	52	Cr
25	Manganese	55	Mn
26	Iron	56	Fe
27	Cobalt	59	Co
28	Nickel	58.7	Ni
29	Copper	63.5	Cu
30	Zinc	65.4	Zn
31	Gallium	69.7	Ga
32	Germanium	72.6	Ge
33	Arsenic	75	As
34	Selenium	79	Se
35	Bromine	80	Br
36	Krypton	83.8	Kr
37	Rubidium	85.5	Rb
38	Strontium	87.6	Sr
39	Yttrium	88.9	Y
40	Zirconium	91.2	Zr
41	Niobium	92.9	Nb
42	Molybdenum	95.9	Mo
43	Technetium	98	Tc
44	Ruthenium	101	Ru
45	Rhodium	103	Rh
46	Palladium	106	Pd
47	Silver	108	Ag
48	Cadmium	112	Cd
49	Indium	115	In
50	Tin	119	Sn
51	Antimony	122	Sb
52	Tellurium	128	Te
53	Iodine	127	I
54	Xenon	131.3	Xe
55	Cesium	133	Cs
56	Barium	137.4	Ba
57	Lanthanum	139	La
58	Cerium	140.1	Ce
59	Praseodymium	140.9	Pr
60	Neodymium	144.2	Nd
61	Europium	152	Eu
62	Gadolinium	157.3	Gd
63	Terbium	158.9	Tb
64	Dysprosium	162.5	Dy
65	Ho	164.9	Ho
66	Erbium	167.3	Er
67	Thulium	168.9	Tm
68	Ytterbium	173	Yb
69	Lutetium	175	Lu
70	Hafnium	178.5	Hf
71	Tantalum	181	Ta
72	Tungsten	183.9	W
73	Rhenium	186.2	Re
74	Osmium	190.2	Os
75	Iridium	192.2	Ir
76	Platinum	195.1	Pt
77	Gold	197	Au
78	Mercury	200.6	Hg
79	Thallium	204	Tl
80	Lead	207.2	Pb
81	Bismuth	209	Bi
82	Polonium	210	Po
83	Astatine	210	At
84	Radium	226	Ra
85	Actinium	227	Ac
86	Thorium	232	Th
87	Protactinium	231	Pa
88	Uranium	238	U
89	Neptunium	237	Np
90	Plutonium	244	Pu
91	Americium	243	Am
92	Curium	247	Cm
93	Berkelium	247	Bk
94	Californium	250	Cf
95	Einsteinium	252	Es
96	Fermium	253	Fm
97	Mendelevium	258	Md
98	Nobelium	259	No
99	Lawrencium	260	Lr
100	Rutherfordium	261	Rf
101	Dubnium	262	Db
102	Seaborgium	266	Sg
103	Bohrium	264	Bh
104	Hassium	277	Hs
105	Meitnerium	268	Mt
106	Darmstadtium	271	Ds
107	Röntgenium	272	Rg
108	Ununseptium	289	Uus
109	Unbihexium	288	Uub
110	Untriseptium	293	Uut
111	Unquadrupium		

General Curriculum with Major in AGRONOMY  
Crops or Soils Option \_\_\_\_\_  
(for degree of B.S. in Agriculture)

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_

DATE \_\_\_\_\_

AGRICULTURE PRESCRIBED:		HOURS	GRADE	OTHER AGRONOMY COURSES--5 hours for Crops option; 11 hours for Soils option; Agron. credits must total 20 hrs. exclusive of Agron. 121 and 201.		
Agr. 100		0				
*Agron. 110		3				
Agron. 121		4				
Agron. 201		5				
Agron. 302		3				
Agron. 311		3				
Agron. 321		3				
*Agron. 377		3				
*Required in Crops Option Only						
11 HOURS FROM:				AGRICULTURE ELECTIVES--Total		
Agr. Econ. 100		3		Agr. prescribed and electives must equal at least 50 hours.		
Agr. Eng. 101		3				At least 25 hours of Agr. must be completed in residence.
Agron. 110		3				
An. Sci. 101		3				Transfer:
An. Sci. 102 or		3				Residence:
Da. Sci. 102						Earned:
Da. Sci. 100		3				To be earned:
Forestry 102		3				
Hort. 100		3				
NON-AGRICULTURE PRESCRIBED:						
Botany 100		4		HUMANITIES AND SOCIAL SCIENCES--12 hours from: anthro., art, econ., for. lang., geog., hist, land. arch., lit., music, phil., pol. sci., psych., religion, soc., and speech.		
Chem. 101, 102, or 111		3-5		MUST INCLUDE:		
Chem. 132 or 133		3-5		Hist. 152 or Pol. Sci. 150		
Econ. 108		3			3	Earned:
Geology 105		3				To be earned:
Math. Placement Test or						
Math. 111, 112, or 104		3-5				
Rhetoric 101		3				
Rhetoric 102		3				
Speech 101		3		OPEN ELECTIVES:		
Zoology 104		4				
Mil.-Mil.		1-1				TOTAL HOURS
Mil.-Mil.		1-1				
P.E.-P.E.		1-1				
P.E.-P.E.		1-1				

130 hours, inclusive of regular military and P.E., are required for the degree as outlined above. Minimum average of 3.0 is required for graduation. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at U. of I. and a combined average of 3.0 for transfer and University of Illinois work.

FEDERAL GOVERNMENT  
 DEPARTMENT OF THE INTERIOR  
 BUREAU OF LAND MANAGEMENT

TITLE OF PROJECT  
 DATE OF REPORT

GENERAL INFORMATION		SPECIFIC INFORMATION	
PROJECT NO.	100-100000	SECTION NO.	100-100000
PROJECT NAME	LAND ACQUISITION	SECTION NAME	LAND ACQUISITION
PROJECT LOCATION	STATE OF CALIFORNIA	SECTION LOCATION	STATE OF CALIFORNIA
PROJECT PURPOSE	TO ACQUIRE LAND FOR NATIONAL MONUMENT	SECTION PURPOSE	TO ACQUIRE LAND FOR NATIONAL MONUMENT
PROJECT STATUS	PLANNED	SECTION STATUS	PLANNED
PROJECT FUNDING	FEDERAL BUDGET	SECTION FUNDING	FEDERAL BUDGET
PROJECT SCHEDULE	1960-1965	SECTION SCHEDULE	1960-1965
PROJECT PERSONNEL	JOHN DOE	SECTION PERSONNEL	JOHN DOE
PROJECT CONTACT	JOHN DOE	SECTION CONTACT	JOHN DOE
PROJECT DESCRIPTION	This project is a land acquisition project for the purpose of establishing a National Monument. The project is located in the State of California and is planned for the years 1960-1965. The project is funded by the Federal Budget and is managed by John Doe.		
PROJECT DETAILS	The project details include the following: <ul style="list-style-type: none"> <li>Project Name: Land Acquisition</li> <li>Project Location: State of California</li> <li>Project Purpose: To acquire land for National Monument</li> <li>Project Status: Planned</li> <li>Project Funding: Federal Budget</li> <li>Project Schedule: 1960-1965</li> <li>Project Personnel: John Doe</li> <li>Project Contact: John Doe</li> </ul>		
PROJECT SUMMARY	The project summary is as follows: <ul style="list-style-type: none"> <li>Project Name: Land Acquisition</li> <li>Project Location: State of California</li> <li>Project Purpose: To acquire land for National Monument</li> <li>Project Status: Planned</li> <li>Project Funding: Federal Budget</li> <li>Project Schedule: 1960-1965</li> <li>Project Personnel: John Doe</li> <li>Project Contact: John Doe</li> </ul>		

This report was prepared by the Bureau of Land Management, Department of the Interior, for the purpose of providing information on the project. The report is intended for use by the Bureau of Land Management and is not to be distributed outside the Bureau.



## MAJOR IN ANIMAL SCIENCE

For students interested in preparing for work in the fields of animal feeding and nutrition, animal breeding and genetics, animal production, or related fields of the livestock and poultry industry.

For common core requirements see page 11. Other courses required for this major are:

<u>Prescribed Courses in Agriculture</u>	<u>Semester</u>	<u>Hours</u>
Animal Science 101--Introduction to Animal Science (I, II)		3
Animal Science 102--Feeds and Feeding (I, II)		3
Animal Science 110--Plant and Animal Genetics (I, II)		3
Agronomy 201--Soils (I, II)		5
Animal Science 204--Farm Meats (II)		3
Animal Science 305--Genetics and Animal Improvement (II)		3
Animal Science 332--Livestock Marketing (II)		3
Animal Nutrition 301--Introduction to Animal Nutrition (II)		3
Two of the following:		
Animal Science 206--Light Horses (II)		3
Animal Science 301--Beef Production (I, II)		3
Animal Science 302--Sheep Production (II)		3 or 4
Animal Science 303--Pork Production (I, II)		3
Animal Science 304--Poultry Management (II)		3 or 4

Elective courses in Agriculture to bring total Agriculture to a minimum of fifty hours

Humanities and Social Sciences (see page 12 for definition) 12

Prescribed Non-Agriculture Courses

Veterinary Pathology and Hygiene 105--Animal Hygiene (I)	3
Veterinary Physiology and Pharmacology (New Course)	3

Open Electives to Bring Total Hours to: 130

Recommended Agriculture Electives

Animal Science courses other than those listed or taken to satisfy the requirements.  
 Agricultural Economics 220, 303  
 Agriculture 114, 216  
 Agronomy 322  
 Dairy Science 330, 381  
 Entomology 101

Recommended Non-Agriculture Electives

Bacteriology 104 or 300  
 Chemistry 105, 122, 350, and 355  
 Mathematics 114, 122 or 123, and 132 or 133  
 Physics 101 and 102  
 Zoology 132 and 333



General Curriculum with Major in ANIMAL SCIENCE  
(for degree of B.S. in Agriculture)

27.

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_

DATE \_\_\_\_\_

AGRICULTURE PRESCRIBED:	HOURS	GRADE	TWO COURSES FROM: An. Sci. 206, 301, 302, 303, 304		
Agr. 100	0				
Agron. 201	5				
An. Nutr. 301	3				
An. Sci. 101	3				
An. Sci. 102	3				
An. Sci. 110	3		AGRICULTURE ELECTIVES--Total Agr. prescribed and electives must equal at least 50 hours.	At least 25 hours of Ag must be completed in residence.	
An. Sci. 204	3				
An. Sci. 305	3				
An. Sci. 332	3				
6 HOURS FROM:					
Agr. Econ. 100	3				Transfer:
Agr. Eng. 101	3				
Agron. 121	4				Residence:
Da. Sci. 100	3				
Forestry 102	3				Earned:
Hort. 100	3				
NON-AGRICULTURE PRESCRIBED:					
Botany 100	4				To be earned:
Chem. 101, 102, or 111	3-5		HUMANITIES AND SOCIAL SCIENCES--12 hours from anthro., art, econ., for. lang., geog., hist. land. arch., lit., music, phil., pol. sci., psych., religion, soc., and speech.		
Chem. 132 or 133	3-5				
Econ. 108	3				Earned:
Geology 105	3				To be earned:
Math. Placement Test or Math. 111, 112, or 104	3-5				
Rhetoric 101	3		OPEN ELECTIVES		
Rhetoric 102	3				
Speech 101	3				
Vet. Path. & Hyg. 105	3				
Vet. Phys. & Pharm.	3				
Zoology 104	4				
Mil.-Mil.	1-1				
Mil.-Mil.	1-1				
P.E.-P.E.	1-1				
P.E.-P.E.	1-1				
TOTAL HOURS					

130 hours, inclusive of regular military and P.E., are required for the degree as outlined above. Minimum average of 3.0 is required for graduation. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at U. of I. and a combined average of 3.0 for transfer and University of Illinois work.





## MAJOR IN DAIRY SCIENCE

The purpose of the major in Dairy Science is to provide training for students planning careers as dairy farm operators and managers; as fieldmen for milk plants, breed associations, feed companies, and governmental agencies; as control technicians or salesmen for feed manufacturers; as laboratory and field technicians in artificial insemination, and as breeding consultants.

In addition, this major provides a foundation for advanced study in preparation for careers as college teachers, research scientists in experiment stations and industry, and as extension specialists.

For common core requirements see page 11. Other courses required for this major are:

<u>Prescribed Courses in Agriculture</u>	<u>Semester</u>	<u>Hours</u>
Dairy Science 100--Introduction to Dairy Production (I, II)		3
Dairy Science 102--Feeds and Feeding (I, II)		3
Dairy Science 110--Plant and Animal Genetics (I, II)		3
Dairy Science 202--Feeding Dairy Cattle (II)		3
Dairy Science 205--Dairy Cattle Management (I)		3
Agr. Economics 220--Farm Management (I, II)		3
Agronomy 201--Soils (I, II)		5
Nine hours from the following:		
Dairy Science 104--Dairy Cattle Judging (II)		2
Dairy Science 150--General Dairy Bacteriology (II)		2
Dairy Science 305--Genetics and Animal Improvement (II)		3
Dairy Science 311--Problems in Dairy Farming (I)		3
Dairy Science 330--Reproduction and Artificial Insemination of Farm Animals (I)		3
Dairy Science 334--Marketing Dairy Products		3
Agronomy 121--Crop Production (I, II)		4
Agronomy 322--Forage Crops and Pastures (II)		3
An. Nutr. 301--Introduction to Animal Nutrition (II)		3
Entomology 101--Agricultural Entomology (I, II)		3
Elective courses in Agriculture to bring total Agriculture to a minimum of fifty hours.		

<u>Humanities and Social Sciences</u> (see page 12 for definition)	12
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Prescribed Non-Agriculture Courses

Minimum of six hours from:

Bacteriology	
Chemistry 122--Elementary Quantitative Analysis (I, II)	5
Chemistry 350--General Biochemistry (I, II)	3
Chemistry 355--Biochemistry Laboratory (I, II)	3
Mathematics (in addition to core requirements)	
Physiology	
Veterinary Physiology and Pharmacology	

<u>Open Electives to Bring Total Hours to:</u>	130
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Depending upon their interests and abilities, and in consultation with their advisers, students majoring in Dairy Science are urged to select their elective courses from the agriculture courses listed above in excess of the nine-hour requirement or from non-agricultural courses which would supplement the major program with any of the basic sciences, the communication skills, business practices and administration, social sciences or the humanities.





## 29.

NAME \_\_\_\_\_  
DATE \_\_\_\_\_

AGRICULTURE PRESCRIBED:	HOURS	GRADE	9 HOURS FROM: Da. Sci. 104, 150, 305, 311, 330, 334; Agron. 121, 322; An. Nutr. 301; Entom. 101
Agr. 100	0		
Agr. Econ. 220	3		
Agron. 201	5		
Da. Sci. 100	3		
Da. Sci. 102	3		
Da. Sci. 110	3		
Da. Sci. 202	3		At least 25 hours of Agr must be completed in residence.
Da. Sci. 205	3		
6 HOURS FROM:			AGRICULTURE ELECTIVES--Total Agr. prescribed and electives must equal at least 50 hours.
Agr. Econ. 100	3		
Agr. Eng. 101	3		Transfer:
Agron. 121	4		
An. Sci. 101	3		Residence:
Forestry 102	3		
Hort. 100	3		Earned:
NON-AGRICULTURE PRESCRIBED:			To be earned:
Botany 100	4		
Chem. 101, 102, or 111	3-5		
Chem. 132 or 133	3-5		6 HOURS FROM: Bact., Chem. 122, 350, 355, Math., Physiol., Vet. Phys. and Pharm.
Econ. 108	3		Earned:
Geology 105	3		To be earned:
Math. Placement Test or Math. 111, 112, or 104	3-5		HUMANITIES AND SOCIAL SCIENCES--12 hours from: anthro., art, econ., for. lang., geog., hist., land. arch., lit., music, phil., pol. sci., psych., religion, soc., and speech.
Rhetoric 101	3		Earned:
Rhetoric 102	3		To be earned:
Speech 101	3		OPEN ELECTIVES:
Zoology 104	4		
Mil.-Mil.	1-1		
Mil.-Mil.	1-1		
P.E.-P.E.	1-1		
P.E.-P.E.	1-1		
			TOTAL HOURS

130 hours, inclusive of regular military and P.E., are required for the degree as outlined above. Minimum average of 3.0 is required for graduation. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at U. of I. and a combined average of 3.0 for transfer and University of Illinois work.



## MAJOR IN HORTICULTURE

For students who are interested primarily in general agriculture but desire a basic knowledge of horticulture. Emphasis is placed on the basic plant sciences to give a general background for the specialized phases of horticulture. By a careful choice of horticulture courses and electives, a student may prepare for the production of fruits, vegetables, or other specialized horticultural crops.

Students who are interested in horticultural crops for processing should enroll in the horticultural food crops curriculum; those interested in the production of flowers, in the floriculture curriculum.

For common core requirements see page 11. Other courses required in this major are:

<u>Prescribed Courses in Agriculture</u>	<u>Semester</u>	<u>Hours</u>
Horticulture 100 <sup>1</sup> --Introductory Horticulture (I, II)		3
Horticulture 110--Plant and Animal Genetics (I, II)		3
Horticulture 121--Plant Propagation		3
Agronomy 201--Soils (I, II)		5
Entomology 101--Agricultural Entomology (I, II)		3
Plant Path. 317--Plant Pathology (Bot. 317) (I)		4
Additional Horticulture courses		11

Elective courses in Agriculture to bring total Agriculture to a minimum of fifty hours

Humanities and Social Sciences (see page 12 for definition) 12

Prescribed Non-Agriculture Courses  
Botany 130--Plant Physiology (I) 5

Open Electives to Bring Total Hours to: 130

Recommended Agriculture Electives  
Agriculture 114, 216  
Agricultural Engineering 131, 252  
Agricultural Economics 303  
Agronomy 306, 311, 326  
Horticulture courses other than those listed or taken to satisfy the requirements

Recommended Non-Agriculture Courses  
Accountancy 201  
Botany 116, 160  
Landscape Architecture 251, 252  
Entomology 319  
Geography 211  
Philosophy 102  
Physics 101, 102  
Political Science 150  
Rhetoric 151

<sup>1</sup>/ Juniors and seniors should substitute Hort. 242 or 262.





General Curriculum with Major in HORTICULTURE  
(for degree of B.S. in Agriculture)

31.

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_

DATE \_\_\_\_\_

AGRICULTURE PRESCRIBED:	HOURS	GRADE	HORTICULTURE ELECTIVES--11 hours minimum			
Agr. 100	0					
Agron. 201	5					
Entom. 101	3					
Hort. 100	3					
Hort. 110	3					
Hort. 121	3					
Plant Path. 317	4					
9 HOURS FROM:						
Agr. Econ. 100	3		AGRICULTURE ELECTIVES--Total Agr. hours of Agr. prescribed and electives must equal at least 50 hours.			
Agr. Eng. 101	3					
Agron. 121	4					
An. Sci. 101	3					
An. Sci. 102 or Da. Sci. 102	3					
Da. Sci. 100	3					At least 25 hours of Agr. must be completed in residence.
Forestry 102	3					Transfer:
						Residence:
NON-AGRICULTURE PRESCRIBED:						
Botany 100	4					Earned:
Botany 130	5					To be earned:
Chem. 101, 102, or 111	3-5					
Chem. 132 or 133	3-5					
Econ. 108	3		HUMANITIES AND SOCIAL SCIENCES--12 hours from: anthro., art, econ., for. lang., geog., hist., land. arch., lit., music, phil., pol. sci., psych., religion, soc., and speech.			
Geology 105	3					
Math. Placement Test or Math. 111, 112, or 104	3-5					Earned:
						To be earned:
Rhetoric 101	3		OPEN ELECTIVES:			
Rhetoric 102	3					
Speech 101	3					TOTAL HOURS
Zoology 104	4					
Mil.-Mil.	1-1					
Mil.-Mil.	1-1					
P.E.-P.E.	1-1					
P.E.-P.E.	1-1					

130 hours, inclusive of regular military and P.E., are required for the degree as outlined above. Minimum average of 3.0 is required for graduation. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at U. of I. and a combined average of 3.0 for transfer and University of Illinois work.





## General Curriculum in Agriculture, cont.

## MAJOR IN GENERAL AGRICULTURE

For students who are interested in broad basic training in agriculture rather than in specialization within a departmental field of work. Areas for which such training is suited include farming, agricultural extension, agricultural journalism, agricultural services, conservation and wildlife management, pre-theological study, and others.

For common core requirements see page 11. Other courses required for this major are:

<u>Prescribed Courses in Agriculture</u>	<u>Semester</u>	<u>Hours</u>
Agronomy 201--Soils (I,II)		5
At least three hours credit in each of the following departments, in addition to courses taken to complete Group 1 requirements:		
Agricultural Economics		3
Agricultural Engineering		3
Agronomy (in addition to 201)		3
Animal Science		3
Dairy Science		3
Horticulture		3
Elective courses in Agriculture to bring total Agriculture to a minimum of fifty hours.		
Humanities and Social Sciences (see page 12 for definition)		12
<u>Open Electives to Bring Total Hours to:</u>		130

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Suggested programs of courses are outlined on the following pages for students who wish to prepare for work in agricultural extension, agricultural journalism, conservation and wildlife management, or for theological study.

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Suggested courses for pre-theological students  
as preparation for admission to a theological seminary

In addition to the courses specifically required in the first two years of the general curriculum in agriculture, and the general agriculture major, the following are also recommended for students enrolled in the College of Agriculture who plan to enter the ministry:

Education  
English Literature (preferably two courses)  
Foreign Language (French, German, or Greek)  
History or Government (preferably two courses)  
Philosophy  
Psychology  
Religion (Foundation Courses)  
Rural Sociology  
Sociology

These will fulfill requirements for entry into most seminaries, but a student planning to enter a particular seminary should check as to courses required for admission and pre-enroll in the seminary of his choice.

THE UNIVERSITY OF CHICAGO

1911

Suggested Program for Agricultural Extension

(Major in General Agriculture)

<u>Agriculture Courses, including:</u>	<u>Semester</u>	<u>Hours</u>
Agriculture 100--Lectures for Freshmen in Agriculture (I,II)		0
Agronomy 121--Crop Production (I,II)		4
Animal Science 102--Feeds and Feeding (I,II)		3
Dairy Science 100--Intro. to Dairy Production (I,II)		3
Agronomy 110, An. Sci. 110, Da. Sci. 110, or Hort 110--Plant and Animal Genetics (I,II)		3
Agricultural Economics 220--Farm Management (I,II)		3
Agricultural Economics 230--Marketing of Agric. Products (I,II)		3
Agriculture 114--Agricultural Journalism (I,II)		3
Agriculture 206--Agricultural Extension (II)		3
Agronomy 201--Soils (I,II)		5
Entomology 101--Agricultural Entomology (I,II)		3
Rural Sociology 117--Introduction to Rural Sociology (I,II)		3

One additional three-hour course from each of the following departments:

Agricultural Engineering, Agronomy, Animal Science, Dairy Science, and Horticulture, to be chosen from the recommended agriculture electives below:

Agr. Econ. 273, 302, 303, 305, 324, 325

Agr. Eng. 241, 252, 272, 361

Agriculture 208, 214, 216

Animal Science 301, 302, 303, 304

Agronomy 301, 306, 322, 326

Dairy Science 202, 205, 330

Forestry 102

Horticulture 125, 242, 262

Plant Path. 317 or 377

Humanities and Social Sciences (see page 12 for definition) 12

Including nine hours from:

Econ. 109--Principles of Economics (I,II) 3

Pol. Sci. 150--American Government: Organization and Powers (I,II) 3

Sociology (200- or 300-level course) 3

Speech 113--Group Discussion and Conference Leadership (I,II) 3

Speech 221--Persuasion (I,II) 3

Psychology 100--Introduction to Psychology (I,II) or 4

D. G. S. 171--Psychology for General Education (I,II) 4

Open Elective

Rhetoric 151--Business Letter Writing (I,II) 3





### Suggested Programs for Agricultural Journalism

For students who are interested in positions in the farm magazine field, farm radio or television, advertising, sales, public relations, college editorial work and other fields requiring training in both agriculture and journalism. Two options are available:

- I. Bachelor of Science in Agriculture with a minor in Journalism.
- II. Bachelor of Science in Journalism with a minor in Agriculture.

Students who desire to follow either option of the combined agriculture-journalism program should consult with the Associate Dean of Agriculture or the Dean of the College of Journalism as early as possible and be assigned to an appropriate adviser.

Option I. For the Bachelor of Science in Agriculture with a minor in Journalism, the student will enroll in the College of Agriculture, general agriculture curriculum, and complete all requirements of that curriculum. In addition to the prescribed courses of the curriculum, he must also complete the following courses:

	<u>Semester</u>	<u>Hours</u>
Agriculture 114 (Same as Journ. 114)--Agricultural Journalism (I, II)		3
Journalism 204--Typography (I, II)		2
Journalism 211--Reporting (I, II)		3
Journalism 321--Copyreading (I, II)		4
Electives in Journalism		8
TOTAL		<u>20</u>

The journalism electives are to be chosen from the following courses: Journ. 214 (also Agric. 214), 223, 227, 261, 281, 282, 323, 328, 351, 365, and 382.

All of the courses taken in journalism may be counted as open electives in the general agriculture curriculum. Students following this option complete all four years while enrolled in the College of Agriculture.

Option II. For the Bachelor of Science in Journalism with a minor in Agriculture, the student may take his first two years of work in the College of Agriculture or in the College of Liberal Arts and Sciences. In this option, the student must complete a minimum of twenty semester hours in agriculture courses as follows:

<u>Required Agriculture Courses:</u>	<u>Semester</u>	<u>Hours</u>
Agonomy 121--Crop Production (I, II)		4
Animal Science or Da. Sci. 102--Feeds and Feeding (I, II)		3
Agricultural Economics 220--Farm Management (I, II)		3
Approved Electives in Agriculture		10
TOTAL		<u>20</u>

# THEORY OF THE EARTH

The theory of the earth is a branch of geology which deals with the origin and development of the earth and its various parts. It is a science which seeks to explain the processes which have shaped the earth and its features.

1. The origin of the earth
2. The development of the earth
3. The structure of the earth
4. The history of the earth

The theory of the earth is a branch of geology which deals with the origin and development of the earth and its various parts. It is a science which seeks to explain the processes which have shaped the earth and its features.

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These twenty hours may be substituted for the twenty hours of advanced social studies required for graduation by the College of Journalism. The agricultural electives are to be chosen from the following courses: Agr. Eng. 111, 112; Agr. Econ. 305; Agron. 201; An. Sci. 201, 301, 303, or 304; Da. Sci. 100; Forestry 101; Hort. 100; and Rural Sociology.

After two years of pre-journalism work in Agriculture or Liberal Arts and Sciences, the student then transfers to the College of Journalism and Communications for two years of professional training. If the first two years are taken in the College of Agriculture, the student will find it advantageous to include in his program those agriculture courses from the above listing which are open to freshmen and sophomores. The remaining agriculture requirements may be completed during the junior and senior years. Since some of the required and recommended agriculture courses have prerequisites of basic science courses (Botany 100, Chemistry 101, 102, or 111 or Geology 105), it is advisable to elect these courses during the first two years also.



**Suggested Program for Conservation and Wildlife Management**  
(Major in General Agriculture)

Students who wish to obtain a degree in agriculture with specialization in conservation and wildlife management should complete the core requirements of the general curriculum and the following courses:

<u>Agriculture Courses From Group I</u>	<u>Semester</u>	<u>Hours</u>
Agr. Economics 100--Introductory Agric. Economics (I, II)		3
Agronomy 121--Crop Production (I, II)		4
Forestry 102--Farm Forestry (I, II)		3
Horticulture 110--Plant and Animal Genetics (I, II)		3
Agriculture Elective from Group I		3
<u>Other Agricultural Courses</u>		
Agr. Economics 220--Farm Management (I, II)		3
Agr. Engineering 252--Mechanics of Soil and Water Conservation (II)		3
Agriculture 216--Experimental and Biological Statistics (I, II)		3
Agronomy 201--Soils (I, II)		5
Agronomy 307--Principles of Soil Conservation (II)		3
Animal Science or Animal Nutrition Electives (200 or 300 level)		3
Dairy Science 102--Feeds and Feeding (I, II)		3
Entomology 101--Agricultural Entomology (I, II)		3
Horticulture 121--Plant Propagation (I)		3
Agriculture electives to bring total to 50 hours		5-6
<u>Humanities and Social Sciences</u> (see page 12 for definition)		12
<u>Non-Agriculture Courses for GAME MANAGEMENT SPECIALIZATION</u>		
Botany 160--Introductory Plant Taxonomy (II)		3
Botany 381--Plant Ecology (I)		3
Physiology 361 (Zoology 361)--Comparative Physiology (I)		5
Zool. 132--Comparative Vertebrate Anatomy (I, II)		5
Zool. 335--Ornithology (II)		3
Zool. 336--Mammalogy(I--alternate years)		3
Zool. 342--Wildlife Management and Conservation (I)		3
Zool. 345--Animal Ecology (I)		3-5
<u>Non-Agriculture Courses for FISH MANAGEMENT SPECIALIZATION</u>		
Botany 160--Introductory Plant Taxonomy (II)		3
Chem. 105--Inorganic Chem. and Qualitative Analysis (I, II)		5
Chem. 122--Elementary Quantitative Analysis (I, II)		5
Physiology 361 (Zoology 361)--Comparative Physiology (I)		5
Zool. 132--Comparative Vertebrate Anatomy (I, II)		5
Zool. 304--Field and Systematic Zoology (I)		5
Zool. 337--Ichthyology(I--alternate years)		3
Zool. 342--Wildlife Management and Conservation (I)		3
Zool. 345--Animal Ecology (I)		3-5



Section 100 - The Government of the District of Columbia  
Chapter 100 - The Government of the District of Columbia

Section 100-100 - The Government of the District of Columbia  
Chapter 100 - The Government of the District of Columbia

Section 100-100 - The Government of the District of Columbia  
Chapter 100 - The Government of the District of Columbia

Section 100-100 - The Government of the District of Columbia  
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Section 100-100 - The Government of the District of Columbia  
Chapter 100 - The Government of the District of Columbia

General Curriculum with Major in GENERAL AGRICULTURE  
(for degree of B.S. in Agriculture)

37.

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_

DATE \_\_\_\_\_

AGRICULTURE PRESCRIBED:		GRADE	AGRICULTURE ELECTIVES: Must include 3 hours of additional credit in each of the following departments:		
Agr. 100	0		Agr. Econ.		
Agron. 201	5		Agr. Eng.		
15 HOURS FROM:			Agron.		
Agr. Econ. 100	3		An. Sci.		
Agr. Eng. 101	3		Da. Sci.		
Agron. 121	4		Hort.		
An. Sci. 101	3		OTHER AGRICULTURE ELECTIVES--Total hours of Agr. must be completed in residence.		
An. Sci. 102 or Da. Sci. 102	3				
Da. Sci. 100	3		Transfer:		
Forestry 102	3				
Hort. 100	3		Residence:		
Agron. 110, An. Sci. 100, Da. Sci. 110, or Hort. 110	3				
NON-AGRICULTURE PRESCRIBED:			HUMANITIES AND SOCIAL SCIENCES--12 hours from: anthro., art, econ., for. lang., geog., hist., land. arch., lit., music, phil., pol. sci., psych., religion, soc., and speech.		
Botany 100	4				
Chem. 101, 102, or 111	3-5		EARNED:		
Chem. 132 or 133	3-5				
Econ. 108	3		To be earned:		
Geology 105	3				
Math. Placement Test or Math. 111, 112 or 104	3-5		TOTAL HOURS		
Rhetoric 101	3				
Rhetoric 102	3		TOTAL HOURS		
Speech 101	3				
Zoology 104	4		TOTAL HOURS		
Mil.-Mil.	1-1				
Mil.-Mil.	1-1		TOTAL HOURS		
P.E.-P.E.	1-1				
P.E.-P.E.	1-1		TOTAL HOURS		

130 hours, inclusive of regular military and P.E., are required for the degree as outlined above. Minimum average of 3.0 is required for graduation. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at U. of I. and a combined average of 3.0 for transfer and University of Illinois work.

UNITED STATES  
DEPARTMENT OF AGRICULTURE

1900  
1901

The following table shows the number of persons engaged in the various occupations of the United States in 1900 and 1901.			1900		1901	
Total	Male	Female	1900		1901	
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## General Curriculum in Agriculture with Major for Teachers of Vocational Agriculture

The purpose of this curriculum is to train young men to teach agriculture in high schools having departments of vocational agriculture. In addition to the training outlined in this curriculum, the present Illinois State Plan for Teachers of Vocational Agriculture calls for a minimum of two years of practical experience on the farm after reaching the age of sixteen.

A minimum of 130 hours of credit, including the first two years of military training and physical education, is required for graduation. While students are advised to take courses in the order indicated, they may with the approval of their advisers take courses at another time.

Since all of the requirements of the common first two years of the General Curriculum in Agriculture are included in this major, students may follow the general curriculum for the first two years and then change to this major without loss of time.

Continuation in this curriculum with a major in vocational agriculture requires admission to advanced standing in teacher education. Application for admission to advanced standing must be made through a vocational agriculture adviser at the time of registration for the final semester of the sophomore year. A student who transfers with more than sophomore standing must apply for admission to advanced standing at the time of his first resignation.

Admission to advanced standing is determined on the basis of applicant's academic and personal qualifications for teaching. The completion of certain standardized tests is required. The record of an applicant whose academic average is below 3.5 is subject to special study.

Admission to advanced standing in teacher education is prerequisite to admission to courses in educational practice (student teaching). A student who is admitted to advanced standing in teacher education is admitted to the appropriate educational practice course unless there is subsequent deterioration in his record.

Applications for student teaching assignments are received twice each year. Students who are on the campus during the spring semester prior to the year they expect to enroll in student teaching must apply for an assignment during February of that semester; students who are not on the campus during the spring semester are allowed to apply for assignment during the first three weeks of the fall semester. Application forms may be obtained in the Office of Student Teaching, 208 Gregory Hall.

Agricultural Education 275, Summer Experience in Agricultural Education, is highly recommended for students in this major, and should be taken between the junior and senior years.

# General Principles in the Study of the History of the United States

The history of the United States is a story of a people who have been shaped by a unique geographical position, a rich cultural heritage, and a complex political system. It is a story of a nation that has grown from a small colony to a great power, and of a people who have fought for freedom, justice, and equality.

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First Year

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Agr. 100--Lect. for Freshmen	0	Agr. Course from Group I, or Math	
Agr. Course from Group I	3	111--Alg., or Math. 112--College Alg.,	
Agr. Course from Group I, or Math.		or Math. 104--Elements of Algebra	
111--Algebra, or Math. 112--College		and Trig. <sup>1/</sup>	3-5
Alg., or Math. 104--Elements of		Chem. 101, 102, or 111--Gen. Chem.	3-5
Alg. and Trig. <sup>1/</sup>	3-5	Rhet. 102--Rhet. and Comp.	3
Bot. 100--General Botany	4	Zool. 104--Elementary Zool.	4
Rhet. 101--Rhet. and Comp.	3	Physical Education	1
Physical Education	1	Military (men)	1
Military (men)	1		
Total	15-17	Total	15-17

Second Year

Agr. Eng. 111--Farm Structures and Soil and Water Conservation, or		Agr. Eng. 112--Tractors and Field Machinery, or 111--Farm Structures	
112--Tractors and Field Machinery	3	and Soil and Water Conservation	3
Agriculture Courses from Group I	6	Agriculture Courses from Group I	6
Ed. 101--The Nature of the Teaching Profession	2	Chem. 132--Elem. Org. Chem.	3
Geol. 105--Agricultural Geology	3	Econ. 108--Elements of Economics	3
Physical Education	1	Physical Education	1
Military (men)	1	Military (men)	1
Total	16	Total	17

Third Year

Agriculture Course from Group I	3	Agr. Econ. 220--Farm Management	3
Agron. 201--Soils	5	Ed. 201--Found. of American Ed.	2
Psych. 100--Introd. to Psych.	4	Ed. 240--Prin. of Second. Ed.	2
Speech 101--Prin. of Effective Speaking	3	Hist. 152--History of U.S. from 1865 to the Present	3
Agricultural Electives	0-3	Agricultural Electives	6
Total	15-18	Total	16

Fourth Year

Semesters interchangeable. Courses taken with practice teaching will be offered during a ten-week period.

Agr. Ed. 276--Pract. in Agr. Ed.	5	Pol. Sci. 150--American Govt.	3
Agr. Ed. 277--Programs and Pro- cedures in Agr. Education	5	Agricultural Electives	3-6
Agr. Eng. 201--Farm Shop Work, or		Electives (including two hours of humanities) <sup>3/</sup>	6-12
Da. Sci. 204--Dairy Prod. <sup>2/</sup>	2-3		
Ed. 211--Educ. Psych.	3		
Total	15-16	Total	15-18

Total hours credit required for the B.S. degree . . . . . 130

<sup>1/</sup>Students who pass the math. placement test are not required to take a math. course.  
<sup>2/</sup>D. S. 204 is offered in the second semester only.  
<sup>3/</sup>A total of six hours of humanities is required.





Group 1--Courses in agriculture required of all students in this curriculum.

<u>Courses</u>	<u>Hours</u>
Agr. Econ. 100--Introductory Agr. Economics <sup>1/</sup>	3
Agronomy 121--Crop Production	4
An. Sci. 101--Introduction to Animal Science	3
An. Sci. or Da. Sci. 102--Feeds and Feeding	3
Da. Sci. 100--Introduction to Dairy Prod.	3
Horticulture 100--Introductory Horticulture <sup>1/</sup>	3
Forestry 101--General Forestry, or Forestry 102-- Farm Forestry, or Hort. elective	<u>3</u>
Total	22

Fifth Year

(for the degree, Master of Science in Agricultural Education)

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
Agricultural Courses With Graduate Credit	2	Agricultural Courses With Graduate Credit	2
Educ. 311--Psych. of Learning for Teachers	1/2	Two of the following courses:	
Educ. 312--Mental Hygiene and the School	1 1/2	Educ. 301--Philos. of Educ.	1/2
Electives	1	Educ. 302--Hist. of Am. Educ.	1/2
		Educ. 303--Comparative Educ.	1/2
		Educ. 304--Social Foundations of Education	1/2
		Electives	<u>1</u>
Total	<u>4</u>	Total	<u>4</u>

This fifth-year program is open only to students who have previously met the minimum requirement for teaching vocational agriculture under the Smith-Hughes and related acts. It is planned as a fifth year for students who have completed four years of college work fully equivalent to the General Curriculum in Agriculture with Major for Teachers of Vocational Agriculture.

Teachers planning to complete the requirements for this degree while employed should note the following regulations:

1. Four of the eight required units must be in agriculture and two must be in education, and must be selected with the approval of the adviser.
2. Not more than four units may be earned extramurally; of the credits earned extramurally, no more than two can be in agriculture and no more than two can be in education.

<sup>1/</sup> Students entering as juniors or seniors should substitute Agr. Economics 230 for Agr. Economics 100 and Horticulture 242 or 262 for Horticulture 100.

Date	Description
1891	To the University of Chicago Library
1892	To the University of Chicago Library
1893	To the University of Chicago Library
1894	To the University of Chicago Library
1895	To the University of Chicago Library
1896	To the University of Chicago Library
1897	To the University of Chicago Library

Date	Description	Amount	Total
1891	To the University of Chicago Library	100.00	100.00
1892	To the University of Chicago Library	200.00	300.00
1893	To the University of Chicago Library	300.00	600.00
1894	To the University of Chicago Library	400.00	1000.00
1895	To the University of Chicago Library	500.00	1500.00
1896	To the University of Chicago Library	600.00	2100.00
1897	To the University of Chicago Library	700.00	2800.00

The University of Chicago Library is pleased to announce that it has received a grant of \$100,000 from the National Endowment for the Humanities for the purpose of acquiring and preserving rare and valuable books and manuscripts. This grant will be used to purchase and preserve the most important and valuable books and manuscripts in the field of the history and literature of the United States.

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**General Curriculum in Agriculture with Major for TEACHERS OF VOCATIONAL AGRICULTURE**  
(for degree of B.S. in Agriculture)

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_

DATE \_\_\_\_\_

AGRICULTURE PRESCRIBED--These courses should be completed before the junior year or as soon thereafter as possible			AGRICULTURE ELECTIVES--The total of Agr. prescribed and Agr. elective courses must equal at least 50 hours			At least 25 hours of Agr. must be completed in residence.  Transfer:  Residence:  Earned:  To be earned:
	HOURS	GRADE		HOURS	GRADE	
Agr. 100	0					
Agr. Econ. 100	3					
Agr. Econ. 220	3					
Agr. Eng. 111	3					
Agr. Eng. 112	3					
Agron. 121	4					
Agron. 201	5					
An. Sci. 101	3					
An. Sci. or Da.Sci. 102	3					
Da. Sci. 100	3					
Hort. 100	3					
Forestry 101 or 102, or Hort. elective	3					
NON-AGRICULTURE PRESCRIBED:			SOCIAL SCIENCES PRESCRIBED:			TOTAL HOURS
Botany 100	4		History 152	3		
Chem. 101, 102 or 111	3-5		Pol. Sci. 150	3		
Chem. 132 or 133	3-5		HUMANITIES (Minimum of 6 hrs.)			
Economics 108	3		Psychol. 100	4		
Geology 105	3		Humanities (art, music, lang., lit., psych., phil., religion)			
Math. Placement Test or Math. 111, 112, or 104	3-5		EDUCATION COURSES PRESCRIBED:			
Rhetoric 101	3		Education 101	2		
Rhetoric 102	3		Education 201	2		
Speech 101	3		Education 211	3		
Zoology 104	4		Education 240	2		
Mil.-Mil.	1-1		Agr. Educ. 276	5		
Mil.-Mil.	1-1		Agr. Educ. 277	5		
P.E.-P.E.	1-1		OPEN ELECTIVES:			
P.E.-P.E.	1-1					

130 hours, inclusive of regular military and P.E., are required for the degree as outlined above. A minimum average of 3.0 is required for graduation. An all-University average of 3.5 is required for practice teaching. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at the University of Illinois and a combined average of 3.0 for transfer and University of Illinois work.

Author		Title		Year		Price	
A. N. S. H.	1	The History of the	1800-1850	1	1	1	1
B. N. S. H.	2	The History of the	1850-1900	2	2	2	2
C. N. S. H.	3	The History of the	1900-1950	3	3	3	3
D. N. S. H.	4	The History of the	1950-1990	4	4	4	4
E. N. S. H.	5	The History of the	1990-2000	5	5	5	5



This curriculum is especially designed for students who plan to do graduate study in agricultural fields or for those who wish to engage in technical work requiring more science, mathematics, or engineering than is included in the General Curriculum in Agriculture. Students entering this curriculum as freshmen must have a scholarship rank in the upper half of their graduating class, and those entering as transfers must have a scholastic average in their collegiate work of not less than 3.5 in terms of the grading system of the University of Illinois. Once enrolled, they must maintain an average of at least 3.5 to remain in and graduate from the curriculum.

Options I and II provide an opportunity for planning individual programs of study under the supervision of a faculty adviser qualified in the student's special field of interest. Option III includes many prescribed courses both in agriculture and in engineering. Careful scheduling of courses is necessary.

Option I. For students desiring preparation for graduate study or technical work in animal, plant, or soil science.

Option II. For students desiring preparation for graduate study or technical work in the fields included in agricultural economics, agricultural law, and rural sociology.

Option III. For students enrolled in the five-year combined agricultural science and agricultural engineering program. All requirements of the combined curriculum as outlined on the following pages must be completed to satisfy the requirements for a degree in agriculture.

	Options I and III Minimum Hours	Option II Minimum Hours
General University Requirements (Military, Physical Education and Rhetoric)	14	14
Group I: College of Agriculture Courses	35 <sup>1/</sup>	35
Group II: Humanities (Art, Music, Language, Literature, Philosophy, Religion)	6	6
Group III: Social Science (Anthropology, Economics, Geography, History, Political Science, Psychology, Sociology)	6	16 <sup>3/</sup>
Group IV: Biological Science (Bacteriology, Botany, Entomology, Physiology, Zoology)	10 <sup>2/</sup>	6
Group V: Physical Science (Chemistry, Geology, Mathematics, Physics) <sup>4/</sup>	10 <sup>2/</sup>	16
Electives (unrestricted)	<u>24</u>	<u>37</u>
TOTAL required for graduation	130	130

<sup>1/</sup>In Option III, a maximum of 15 hours of agricultural engineering courses may be credited toward the degree in agriculture.

<sup>2/</sup>Students in Options I and III must complete a total of 45 hours in Groups IV and V combined with a minimum of 10 hours in each.

<sup>3/</sup>Students in Option II must include at least 8 hours in economics.

<sup>4/</sup>In Option III, T.A.M. 150 and 211 may be counted toward Group V.



This document is prepared in accordance with the provisions of the Act of October 3, 1917, (40 Stat. 2909), which authorized the Secretary of the Interior to acquire lands for the establishment of a national monument. The purpose of this document is to provide a detailed description of the lands proposed for acquisition, and to show that they are of such interest to the Nation as to warrant the establishment of a national monument.

Section 1. The lands described in this document are situated in the County of ... State of ... and are of such interest to the Nation as to warrant the establishment of a national monument.

Section 2. The lands described in this document are situated in the County of ... State of ... and are of such interest to the Nation as to warrant the establishment of a national monument.

Section 3. The lands described in this document are situated in the County of ... State of ... and are of such interest to the Nation as to warrant the establishment of a national monument.

Section 4. The lands described in this document are situated in the County of ... State of ... and are of such interest to the Nation as to warrant the establishment of a national monument.

Section	Acres	Description
1	100	...
2	200	...
3	300	...
4	400	...
5	500	...
6	600	...
7	700	...
8	800	...
9	900	...
10	1000	...

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Agricultural Science Curriculum  
Sample programs for first year

Option I

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Chem. 101 or 102--General Chemistry	5 or 3	Chem. 105--Inorganic Chem. and Qualitative Analysis, or Chemistry 106--Inorganic Chemistry	5
Math. 111 <sup>1</sup> or 112--College Algebra	5 or 3	Math. 114--Plane Trigonometry <sup>1</sup>	2
Rhet. 101--Rhet. & Comp.	3	Rhet. 102--Rhet. & Comp.	3
Physical Education	1	Physical Education	1
Military (men)	1	Military (men)	1
Electives	3 to 5	Electives	4 to 6
<b>Total</b>	<b>16 to 18</b>	<b>Total</b>	<b>16 to 18</b>

Option II

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Agr. Econ. 100--Introductory Agricultural Economics	3	Botany 100--General Botany	4
Math. 111 or 112--College Algebra or Math. 114--Plane Trigonometry <sup>1</sup>	5, 3 or 2	Math. 114--Plane Trigonometry <sup>1</sup> or Chem. 101--General Chem.	2 to 5
Rhet. 101--Rhet. & Comp.	3	Rhet. 102--Rhet. & Comp.	3
Physical Education	1	Physical Education	1
Military (men)	1	Military (men)	1
Electives	3-6	Agricultural electives	3 to 4
<b>Total</b>	<b>16 to 18</b>	<b>Total</b>	<b>15 to 18</b>

Second, Third, and Fourth Years

The programs for the second, third, and fourth years must be planned in consultation with the student's faculty adviser.

Total required for graduation . . . . . 130

Students interested in combined programs of Agriculture and Agricultural Engineering should see pages 44-45-46. Those interested in combining Agriculture and Law should see pages 48-49.

<sup>1</sup>/Students who pass the mathematics placement examination in algebra or in both algebra and trigonometry may omit beginning courses in mathematics and enroll in more advanced courses. Students planning to take advanced work in chemistry may take Math. 117 and 127 instead of the indicated mathematics courses.





## Option III

## 5-Year Combined Program in

Agricultural Science and Agricultural Engineering  
(for the degrees, Bachelor of Science in Agriculture  
and Bachelor of Science in Agricultural Engineering)

First Year

(Enroll in College of Agriculture)

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Chem. 102 or 103 - General Chem. <sup>1/</sup>	3 or 4	Chem. 104 - Chemistry of Metallic Elements <sup>1/</sup>	4
Eng. 100 - Engineering Lectures	0	G. E. 101 - Engr. Drawing	3
Math. 111 or 112 - Coll. Alg. <sup>2/</sup>	5 or 3	Math. 123 - Analytic Geometry	5
Math. 114 - Plane Trig. <sup>2/</sup>	2	Rhet. 102 - Rhetoric and Comp.	3
Rhet. 101 - Rhetoric and Comp.	3	Physical Education	1
Physical Education	1	Military (men)	1
Military (men)	1		
Total	13 to 16	Total	17

Second Year

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Agr. Eng. 146 - Farm Tractors	2	Agr. Eng. 156 - Surveying and Soil and Water Engineering	3
Botany 100 - General Botany	4	Math. 143 - Calculus	5
Math. 133 - Calculus	3	Physics 107 - Elect., Magnetism	4
Physics 106 - Mechanics	4	T.A.M. 150 - Statics	2
Speech 101 - Effective Speaking	3	Physical Education	1
Physical Education	1	Military (men)	1
Military (men)	1	Elective <sup>4/</sup>	2 - 3
Total	18	Total	18 to 19

Third Year

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Agr. Eng. 236 - Farm Machine Characteristics and Mechanisms	2	Agr. Econ. 220 - Farm Management	3
G.E. 102 - Engr. Geometry	3	Agron. 121 - Crop Production	4
M.E. 221 - Mechanics of Machinery	5	Econ. 108 - Elem. of Econ.	3
Physics 108 - Heat, Light, Sound	4	T.A.M. 221 - Rest. of Materials	3
T.A.M. 211 - Dynamics	3	T.A.M. 223 - Rest. of Materials (lab)	1
Total	17	Elective <sup>4/</sup>	3
		Total	17

<sup>1/</sup> Those students in the upper 1/4 of their high school class and who have had one year of high school chemistry may take Chem. 109, 5 hours, to complete their chemistry requirements.

<sup>2/</sup> Those students with 3 to 4 years of high school mathematics, including trigonometry, and a satisfactory grade on the mathematics placement examination may take Math. 123 the first semester and follow the Common Program for Freshmen in the College of Engineering. This may require three additional hours of physical science to meet graduation requirements.

<sup>4/</sup> For footnote 4, see page 46.



Fourth Year  
(May transfer to Engineering)

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Agron. 202 - Soils	4	Agr. Eng. 276 - Des. of Farm Struct.	3
C.E. 261 - Structural Analysis	4	Agr. Eng. 286 - Elect. in Agr.	2
E.E. 206 - D.C. & A.C. Circuits	3	C.E. 263 - Elementary Structural Design (2 hrs.) or	2 or 3
E.E. 207 - D.C. & A.C. Circuits (lab)	1	M.E. 224 - Design of Machine Elements (3 hrs.)	
T.A.M. 232 - Fluid Mechanics	3	M.E. 209 - Thermodynamics	3
T.A.M. 234 - Fluid Mechanics (lab)	1	Elective <sup>4/</sup>	6
Elective <sup>4/</sup>	3	Total	16 or 17
Total	19		

Fifth Year  
(Must be enrolled in Engineering)

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Agr. Eng. 299 - Inspection Trip	0	Agr. Eng. 393 - Special Problems	3
Tech. Electives	9	Tech. Electives <sup>3/</sup>	7 or 8
Elective <sup>4/</sup>	9	Elective <sup>4/</sup>	6
Total	18	Total	16 to 17

3/ THE STUDENT WILL SELECT ONE OF THE FOLLOWING GROUPS:

<u>Farm Electrification and Processing</u>	<u>Hours</u>	<u>Soil and Water</u>	<u>Hours</u>
Agr. Eng. 287 - Electricity in Agriculture (Advanced Course)	3	Agr. Eng. 356 - Soil Conservation Structures	3
Agr. Eng. 387 - Agricultural Process Engineering	3	Agr. Eng. 357 - Land Drainage	3
M.E. 254 - Heat Transfer	3	Agr. Eng. 376 - Advanced Design of Farm Structures	3
Tech. Electives	7 or 8	C.E. 262 - Theory of Indeterminate Structures	3
Total	16 or 17	Tech. Electives	5
		Total	17

<u>Power and Machinery</u>	<u>Hours</u>	<u>Farm Structures</u>	<u>Hours</u>
Agr. Eng. 336 - Design of Agricultural Machinery	3	Agr. Eng. 376 - Advanced Design of Farm Structures	3
Agr. Eng. 346 - Farm Power	3	C.E. 262 - Theory of Indeterminate Structures	3
M.E. 234 - Heat Treatment of Metals	3	Agr. Eng. Elective	3
M.E. 271 - Design of Machine Elements	3	Tech. Electives	8
Tech. Electives	4	Total	17
Total	16		





4/ Electives must include the following:

- A. 9 hours of agriculture, other than agricultural engineering.
- B. 6 hours of biological science in addition to Botany 100 (bacteriology, botany, entomology, physiology, zoology)
- C. 6 hours of humanities\* (art, language, literature, philosophy, religion)
- D. 3 hours of social science\* in addition to Economics 108 (anthropology, economics, geography, history, political science, psychology, sociology)
- E. Sufficient open electives to total the minimum curriculum requirement of 169 hours.

\*Since the list of courses which the College of Engineering and the College of Agriculture will accept for humanities and social sciences varies somewhat, students in this program should be careful to select those which are acceptable to both colleges.

NOTE: Students must maintain a 3.5 grade average to continue in and graduate from the agricultural science curriculum. Those whose average falls below this requirement must transfer to the four-year program in the College of Engineering if they wish to obtain a degree in agricultural engineering or to the general curriculum in agriculture if they wish to obtain a degree in agriculture.

of the following are the following

- 1. The first of the following is the first of the following
- 2. The second of the following is the second of the following
- 3. The third of the following is the third of the following
- 4. The fourth of the following is the fourth of the following
- 5. The fifth of the following is the fifth of the following

It is the first of the following that is the first of the following

The first of the following is the first of the following



AGRICULTURAL SCIENCE Curriculum  
Option \_\_\_\_\_  
(for degree of B.S. in Agriculture)

47.

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_  
DATE \_\_\_\_\_

PRESCRIBED:	HOURS	GRADE	GROUP III--Social Sciences (anthro., econ., geog., hist., pol. sci., psych., soc.). Options I and III--Minimum of 6 hrs.; Option II--Minimum of 16 hrs. <sup>2/</sup>		
Rhetoric 101	3				
Rhetoric 102	3				
Mil.-Mil.	1-1				
Mil.-Mil.	1-1				
P.E.-P.E.	1-1				
P.E.-P.E.	1-1				
GROUP I--Agriculture Courses <sup>1/</sup> Minimum of 35 hrs. required. A transfer student must earn at least 1/2 of his agr. hrs. in residence at the Univer. of Ill.			GROUP IV--Biological Sciences (Bact., bot., entom., physiol., zool.). Options I and III--Minimum of 10 hrs. <sup>3/</sup> ; Option II--Minimum of 6 hrs.		
			GROUP V--Physical Sciences (chem., geol., math., physics). Options I and III <sup>4/</sup> --Minimum of 10 hrs. <sup>3/</sup> ; Option II--Minimum of 16 hrs.		
GROUP II--Humanities (art, lang., lit., music, phil., religion). Options I, II, and III--Minimum of 6 hrs.			OPEN ELECTIVES:		
			Total hours earned _____		

- <sup>1/</sup> In Option III, a maximum of fifteen hours of agricultural engineering courses may be credited toward the degree in Agriculture.
  - <sup>2/</sup> Students in Option II must include at least 8 semester hours in Economics.
  - <sup>3/</sup> All students in Options I and III must complete a total of 45 semester hours in Groups IV and V combined, with a minimum of 10 hours in each.
  - <sup>4/</sup> In Option III, T.A.M. 150 and 211 may be counted toward Group V.
- 130 hours, inclusive of regular Military & P.E., are required for the degree as outlined above. To enroll in this curriculum, freshmen must rank in the upper half of their high school graduating class; transfer students must have an average of 3.5 or higher. A minimum average of 3.5 is required for graduation.

# ANNUAL REPORT OF THE (continued on page 2)

DEPARTMENT OF AGRICULTURE  
 BUREAU OF PLANT INDUSTRY

NAME OF THE PERSON OR FIRM	ADDRESS	CITY AND STATE
J. H. Smith 123 Main St. Springfield, Ill.	123 124 125 126 127	128 129 130 131 132
W. J. Brown 456 Oak St. Chicago, Ill.	133 134 135 136 137	138 139 140 141 142
T. R. Green 789 Elm St. New York, N. Y.	143 144 145 146 147	148 149 150 151 152
L. K. White 101 Pine St. Boston, Mass.	153 154 155 156 157	158 159 160 161 162

The following is a list of the persons or firms who have been notified by the Bureau of Plant Industry of the Department of Agriculture, of the fact that they have been selected to receive a grant of money for the purpose of conducting research in the field of plant industry.

The amount of the grant for each person or firm is as follows:

J. H. Smith, \$1,000.00  
 W. J. Brown, \$500.00  
 T. R. Green, \$750.00  
 L. K. White, \$1,250.00

The grant for each person or firm is to be paid in three installments, the first installment being paid at the time of the notification, the second installment being paid at the time of the first report, and the third installment being paid at the time of the final report.

## Six-Year Program in Agriculture and Law

A plan exists between the College of Agriculture and the College of Law by which a student may earn the degree of Bachelor of Science in Agriculture and the degree of Bachelor of Laws in six years. In this case the student must plan carefully so as to include all prescribed courses in agriculture during the first three years, after which he transfers to the College of Law for the fourth year. He can thus receive the agricultural degree at the end of the fourth year and the law degree at the end of the sixth year. This program can best be fitted into the Agricultural Science Curriculum under Option II.

The following listing of courses is intended as a guide. Other courses may be substituted in some cases for those listed here; however, completion of the courses as shown will assure that the student meets all requirements for the degree in the Agricultural Science Curriculum, Option II (see page 42). Students following this program should ask to be assigned an adviser for the six-year program in agriculture and law.

### SUGGESTED AGRICULTURAL SCIENCE PRE-LAW CURRICULUM (for the degree, Bachelor of Science in Agriculture)

(Six semesters in agriculture--six semesters in law)

#### A. Required courses

Rhetoric	6	
Military	4	
Physical Education	4	
		14

#### B. Suggested courses to meet requirements of 35 hours in agriculture (Group I)

Agricultural Economics 100, 220, 230, 302	12
Agricultural Engineering 111	3
Agronomy 121 and 201	9
Animal Science 101, 102	6
Dairy Science 100	3
Horticulture 100	3

(Students interested in Agricultural Economics 200--Special Problems in Agricultural Law, should consult with their adviser.)

#### C. Suggested courses to meet requirements of 44 hours from Groups II through V (Minimum of 6 hours in Groups II and IV; minimum of 16 hours in Groups III and V)

##### Group II Courses

Philosophy 102 or 104	3 to 4
Humanities electives	2 to 3





## SUGGESTED AGRICULTURAL SCIENCE PRE-LAW CURRICULUM--Continued

## Group III Courses

Economics 108, 109, and 250 (8 hours required)	9	
Political Science 150	3	
Psychology 100	4	16

## Group IV Courses - two of the following

Zoology 104, or Botany 100, or		
Entomology 101		7 or 8

## Group V Courses

Chemistry 101 or 111, and 132		
Geology 101 or 105, and 140		
Math. Electives		
Physics 101 and 102		16

D. Suggested Open Electives

Speech 101	3	
Accountancy 201	3	
		<u>6</u>

Total hours in three years. . . . .	100
Law courses to complete requirement for degree. . . . .	<u>30</u>
Total Required for Degree in Agriculture. . . . .	130

NOTE: The 100 hours would be completed during the six semesters in agriculture. Completion of at least 30 hours in law school during the fourth year would qualify the student for graduation from the College of Agriculture. To remain in and graduate from this curriculum, each student must maintain an over-all average of at least 3.5, including courses taken in the College of Law and counted toward the completion of this degree.

Subscription price, Five Dollars Per Annum in Advance  
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THE JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION  
PUBLISHED WEEKLY  
CHICAGO, ILL., U.S.A.  
Subscription price, Five Dollars Per Annum in Advance  
Single Copies, Fifteen Cents  
Entered as Second-Class Matter, May 2, 1912  
Postpaid



DAIRY TECHNOLOGY CURRICULUM  
(for the degree of Bachelor of Science in Dairy Technology)

The following program is designed for students interested in the business aspects of dairy manufacturing or in research or teaching in the field of dairy technology. A minimum of 130 hours of credit is required for graduation. All students specializing in dairy technology are expected to take an inspection trip in either the junior or the senior year. This trip costs about \$35.

First Year

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Chem. 101 or 102--Gen. Chem.	5-3	Chem. 105--Inorg. Chem. and Qualitative Analysis	5
D.S. 100--Intro. to Dairy Prod.	3	Rhet. 102--Rhetoric and Comp.	3
Math. 111 or 112--Coll. Algebra	5-3	Speech 101--Prin. of Effective Speaking	3
Rhet. 101--Rhetoric and Comp.	3	Physical Education	1
Physical Education	1	Military (men)	1
Military (men)	1	Electives	3
Total	<u>14-18</u>	Total	<u>16</u>

Second Year

Chem. 133--Elem. Org. Chem.	5	Bact. 104--Elem. Bact., or Da. Sci. 150 and 151--Gen. Da. Bact.	5
D. T. 101--Intro. to Da. Tech.	3	D. T. 102--Quality Evaluation of Dairy Products	3
Econ. 108--Elements of Economics	3	Physical Education	1
Physical Education	1	Military (men)	1
Military (men)	1	Electives (Group I or II)	6
Elective (Group I or II)	3	Total	<u>16</u>
Total	<u>16</u>		

Third Year

D.T. 211--Bacteriological Control of Plants	4	Accy. 201 <sup>1/</sup> --Fund. of Accounting	3
D.T. 213--Tech. Control of Dairy Products	3	D.T. 310--Dairy Prod. Proc.	4
Rhet. 151--Bus. Letter Writing	3	Electives (Groups I and II)	9
Electives (Groups I and II)	6		
Total	<u>16</u>	Total	<u>16</u>

Fourth Year

D.T. 311--Dairy Prod. Proc.	4	Electives	17
Electives	12		
Total	<u>16</u>	Total	<u>17</u>

1/Students interested in business management should take Accy. 101 and 105.



## DAIRY TECHNOLOGY CURRICULUM--Continued

Group I electives: A minimum of 15 hours, at least 6 of which must be in courses above the 100 level, to be selected from science (bacteriology, chemistry, mathematics, and physics) or commerce (accountancy, business law, economics<sup>1/</sup>, management, and marketing).

Group II electives: A minimum of nine hours in humanities and social sciences, to be selected from anthropology, art, economics<sup>1/</sup>, foreign language, geography, history, landscape architecture, literature, music, philosophy, political science, psychology, religion, sociology, or speech.

Electives in the third and fourth years, chosen with the assistance of an adviser, can provide a background of general business training, a special knowledge of some business field, or a basis for graduate work in preparation for research.

<sup>1/</sup> Students who select economics courses in fulfillment of Group I or II may not count the same course in both groups.





CURRICULUM IN DAIRY TECHNOLOGY  
(for degree of B.S. in Dairy Technology)

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_

DATE \_\_\_\_\_

PREScribed COURSES	CREDIT	GRADE	Group I--A minimum of 15 hours is required from science (bact., chem., math., and physics or commerce (accy., bus. law, econ. <sup>2/</sup> , mgmt., and mktg.). At least 6 of the 15 hours must be above the 100 level.		
Accy. 201 or Accy. 101 and 105 <sup>1/</sup>	3 3-3				
Bact. 104 or Da. Sci. 150 and 151	5 2-3				
Chem. 101 or 102	5-3				EARNED
Chem. 105	5				TO BE
Chem. 133	5				EARNED
Da. Sci. 100	3				
Da. Tech. 101	3				
Da. Tech. 102	3				
Da. Tech. 211	4				
Da. Tech. 213	3				
Da. Tech. 310	4				
Da. Tech. 311	4				
Econ. 108	3				
Math. 111 or 112 or Math. Placement Test	5-3				
Rhet. 101	3				TO BE
Rhet. 102	3				EARNED
Rhet. 151	3				
Speech 101	3				
Military	1				
Military	1				
Military	1				
Military	1				
P. E.	1				
P. E.	1				
P. E.	1				
P. E.	1				

Group II--HUMANITIES AND SOCIAL SCIENCES--  
Minimum of 9 hours from anthro., art, econ.<sup>2/</sup>  
for. lang., geog., hist., land. arch., lit.,  
music, phil., pol. sci., psych., religion, soc.,  
and speech.

OPEN ELECTIVES

TOTAL HR.

130 hours, inclusive of regular military and physical education, are required for the degree as outlined above. A minimum average of 3.0 is required for graduation. Effective Aug. 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at the U. of I. and a combined average of 3.0 for transfer and U. of I. work.

<sup>1/</sup> Students interested in business management should take Accy. 101 and 105.

<sup>2/</sup> Students who select economics courses in fulfillment of Group I or II may not count the same course in both groups.

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**FLORICULTURE CURRICULUM**  
(for the degree of Bachelor of Science in Floriculture)

This curriculum is for students preparing to grow and sell flowers and other ornamental plants or to do teaching and research in this field. Students registered in floriculture are required to make at least one inspection trip before graduation. The trip costs about \$30. Students contemplating graduate work in floriculture should register for the Chemistry 101 (102), Chemistry 105 and Chemistry 133 sequence, rather than the Chemistry 101 (102) or 111 and Chemistry 132 sequence. A minimum of 130 hours of credit is required for graduation.

First Year

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Botany 100--General Botany	4	Chem. 132--Elementary Organic Chemistry <sup>1/</sup>	3
Chem. 101, 102 or 111--General Chemistry <sup>1/</sup>	5 or 3	Entom. 101--Agricultural Entomology	3
Hort. 121--Plant Propagation	3	Rhet. 102--Rhet. & Comp.	3
Rhet. 101--Rhet. & Comp.	3	Physical Education	1
Physical Education	1	Military (men)	1
Military (men)	1	Electives	5 to 7
Total	15 to 17	Total	16 to 18

Second Year

Accy. 101--Prin. of Accounting	3	Accy. 105--Accounting Procedure	3
Bot. 130--Plant Physiology	5	Agron. 201--Soils	5
Econ. 108--Elements of Econ.	3	Bot. 160--Introductory System-atic Botany	3
Geol. 105--Agricultural Geology	3	Hort. 122--Greenhouse Mgmt.	3
Physical Education	1	Physical Education	1
Military (men)	1	Military (men)	1
Electives	0 to 2	Electives	0 to 2
Total	16 to 18	Total	16 to 18

Third Year

Hort. 223--Commercial Flori-cultural Crops	3	Hort. 224--Commercial Flori-cultural Crops	3
Plant Path. 317--Plant Path.	4	Hort. 230--Garden Flowers <sup>2/</sup>	3
Hort. 321--Floricultural Physiology	3	Hort. 322--Plant Nutrition	3
Land. Arch. 251--Trees and Shrubs	3	Land. Arch. 252--Trees and Shrubs	3
Electives	3 to 5	Electives	3 to 6
Total	16 to 18	Total	15 to 18

<sup>1/</sup> See next page.

<sup>2/</sup> See next page.



Fourth Year

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Hort. 231--Floral Decoration	3	Hort. 226--Bedding & Foliage Plants <sup>2/</sup>	3
Electives	12 to 15	Hort. 232--Adv. Floral Decorations	3
		Land. Arch. 164--Apprec. of Landscape Architecture	3
		Electives	6 to 9
Total	<u>15 to 18</u>	Total	<u>15 to 18</u>

1/ Students who plan to take advanced chemistry (such as biochemistry) should take Chem. 101, 105, and 133 instead of Chem. 111 and 132.

2/ Given in alternate years only.

Group II--A minimum of four hours to be selected from anthropology, art, economics, foreign language, geography, history, landscape architecture, literature, music, philosophy, political science, psychology, religion, sociology, or speech.

NOTE: The following courses are suggested as electives which may be taken during the second, third, or fourth year:

	<u>Hours</u>
Accy. 106--Elementary Cost Accounting (I, II)	3
Accy. 108--Intermediate Accounting (I, II)	3
Agr. 114--Agricultural Journalism (I, II)	3
Agron. 306--Fertilizers and Their Soil Reactions (I)	3
Art 185, 186--Design (I, II)	2-4
Bot. 322--Genetics (I)	4
Bus. Law 261--Summary of Business Law (I, II)	3
Econ. 250--Money, Credit, and Banking (I, II)	3
Entom. 319--Chemical Control of Insects (II)	4
Hort. 110--Plant and Animal Genetics (I, II)	3
Hort. 201--Special Problems (I, II)	3-5
Hort. 242--Vegetable Crops Production (II)	3
Hort. 262--Tree and Small Fruit Culture (I)	3
Hort. 333--Marketing Horticulture Products (I)	3
Hort. 345--Growth and Development of Vegetable Crops (I, alternate years)	4
Hort. 382--Improvement of Horticulture Crops by Breeding (II, alternate years )	3
Marketing 101--Principles of Marketing (I, II)	3
Marketing 211--Principles of Retailing (I, II)	3
Marketing 271--Salesmanship (I, II)	2
Marketing 281--Introduction to Advertising (I, II)	3
Rhet. 151--Business Letter Writing (I, II)	3



100

UNIVERSITY OF ILLINOIS  
CURRICULUM IN FLORICULTURE

55.

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_

DATE \_\_\_\_\_

PREScribed COURSES	CREDIT	GRADE	Group II--Minimum of 4 hours selected from anthro., art, econ., for. lang., geog., hist., land. arch., lit., music, phil., pol. sci., psych., religion, soc., and speech	CREDIT	GRADE	SUMMARY
Accy. 101	3					EARNED:
Accy. 105	3					
Agron. 201	5					TO BE EARNED:
Bot. 100	4					
Bot. 130	5					
Bot. 160	3					
Chem 101, 102 or 111	5-3					
Chem. 132	3					
			OPEN ELECTIVES			TOTAL HOURS EARNED:
Econ. 108	3					
Entom. 101	3					
Geol. 105	3					
Hort. 121	3					
Hort. 122	3					
Hort. 223	3					
Hort. 224	3					
Hort. 226	3					
Hort. 230	3					
Hort. 231	3					
Hort. 232	3					
Hort. 321	3					
Hort. 322	3					
L. Arch. 164	3					
L. Arch. 251	3					
L. Arch. 252	3					
Pl. Path. 317	4					
Rhet. 101	3					
Rhet. 102	3					
Mil.	1					
Mil.	1					
Mil.	1					
Mil.	1					
P.E.	1-1					
P.E.	1-1					

130 hours, inclusive of regular military and physical education, are required for the degree as outlined above. A minimum average of 3.0 is required for graduation. Effective August 1, 1956, the students who transfer credits must have a minimum average of 3.0 in all courses taken at U. of I. and combined average of 3.0 for transfer and U. of I. work.

# UNIVERSITY OF MICHIGAN COMMISSION ON RESEARCH

OFFICE OF RESEARCH  
1000 TAPSCOTT DRIVE

1964  
1965

FUNDING AGENCY		PROJECT TITLE		PI		FUNDING YEAR		AMOUNT	
NATIONAL ACADEMY OF SCIENCES	RESEARCH FELLOWSHIP	J. R. KELLY, JR.	RESEARCH FELLOWSHIP	J. R. KELLY, JR.	J. R. KELLY, JR.	1964	1965	1000	1000
						1965	1966	1000	1000
						1966	1967	1000	1000
						1967	1968	1000	1000
						1968	1969	1000	1000
NATIONAL ACADEMY OF SCIENCES	RESEARCH FELLOWSHIP	J. R. KELLY, JR.	RESEARCH FELLOWSHIP	J. R. KELLY, JR.	J. R. KELLY, JR.	1969	1970	1000	1000
						1970	1971	1000	1000
						1971	1972	1000	1000
						1972	1973	1000	1000
						1973	1974	1000	1000
NATIONAL ACADEMY OF SCIENCES	RESEARCH FELLOWSHIP	J. R. KELLY, JR.	RESEARCH FELLOWSHIP	J. R. KELLY, JR.	J. R. KELLY, JR.	1974	1975	1000	1000
						1975	1976	1000	1000
						1976	1977	1000	1000
						1977	1978	1000	1000
						1978	1979	1000	1000
NATIONAL ACADEMY OF SCIENCES	RESEARCH FELLOWSHIP	J. R. KELLY, JR.	RESEARCH FELLOWSHIP	J. R. KELLY, JR.	J. R. KELLY, JR.	1979	1980	1000	1000
						1980	1981	1000	1000
						1981	1982	1000	1000
						1982	1983	1000	1000
						1983	1984	1000	1000
NATIONAL ACADEMY OF SCIENCES	RESEARCH FELLOWSHIP	J. R. KELLY, JR.	RESEARCH FELLOWSHIP	J. R. KELLY, JR.	J. R. KELLY, JR.	1984	1985	1000	1000
						1985	1986	1000	1000
						1986	1987	1000	1000
						1987	1988	1000	1000
						1988	1989	1000	1000
NATIONAL ACADEMY OF SCIENCES	RESEARCH FELLOWSHIP	J. R. KELLY, JR.	RESEARCH FELLOWSHIP	J. R. KELLY, JR.	J. R. KELLY, JR.	1989	1990	1000	1000
						1990	1991	1000	1000
						1991	1992	1000	1000
						1992	1993	1000	1000
						1993	1994	1000	1000

TOTAL AMOUNT: \$10,000.00

TOTAL YEARS: 20

TOTAL PIs: 1

TOTAL PROJECTS: 20

TOTAL FUNDING AGENCIES: 1



**FOOD TECHNOLOGY CURRICULUM**  
(for the degree, Bachelor of Science in Food Technology)

This program is designed for students who wish to prepare for employment as food production, quality control, research, or technical sales workers in governmental agencies, educational institutions, and such food-processing industries as canning, freezing, fermenting, milling and baking, vegetable oil processing, and confection manufacturing. A total of 130 hours of credit, not counting the first two years of military training and physical education, is required for graduation. Students are strongly urged to engage in at least one summer of employment in selected food-processing industries and are required to go on a senior inspection trip of three days' duration. This trip costs about \$35.

First Year

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Chem. 101 or 102--Gen. Chem.	5-3	Botany 100--General Botany	4
D.G.S. 111--Verbal Communication	4	Chem. 105--Inorganic Chemistry and Qualitative Analysis	5
Math. 111--Algebra, or Math. 112--College Algebra <sup>1/</sup>	5-3	D.G.S. 112--Verbal Communication	4
Physical Education	(1)	Math. 114--Plane Trigonometry <sup>1/</sup>	2
Military (men)	(1)	Physical Education	(1)
Electives	2-6	Military (men)	(1)
Total	16	Total	15

Second Year

Chem. 122--Elem. Quan. Analysis	5	Chem. 133--Elem. Org. Chem.	5
Math. 122--Analytic Geometry <sup>1/</sup>	4	Math. 132--Calculus	5
Physics 101--General Physics (Mechanics, Heat, and Sound)	5	Physics 102--General Physics (Light, Elec., and Magn.)	5
Physical Education	(1)	Physical Education	(1)
Military (men)	(1)	Military (men)	(1)
Electives	3	Electives	2
Total	17	Total	17

Third Year

Bact. 104--Elem. Bact.	5	Bact. 308--Food and Industrial Microbiology	5
Chem. 340--Elem. Phys. Chem. <sup>2/</sup>	3	Chem. 249--Chemistry of Colloids <sup>2/</sup>	3
Chem. 341--Elem. Phys. Chem. Lab. <sup>2/</sup>	1	F.T. 202--Elements of Food Tech.	3
F.T. 201--Elem. of Food Tech.	3	Electives	6
F.T. 260--Raw Materials for Proc.	4		
Electives	0-3		
Total	16-19	Total	17

- <sup>1/</sup> Students who pass the algebra portion of the mathematics placement test are exempt from the algebra requirement; those who pass both the algebra and trigonometry portion of this test may begin their college mathematics with analytic geometry.
- <sup>2/</sup> Students adequately qualified may substitute Chem. 342 and 344 for Chem. 249 and 340-341.

**THE TWO-STEP METHOD OF SOLVING LINEAR EQUATIONS**

This process is designed for students who wish to develop the ability to solve problems involving linear equations, or problems that require the use of algebraic reasoning. The process is designed to be used in conjunction with the textbook, and the student is expected to use the process to solve problems that are not solved in the textbook. The process is designed to be used in conjunction with the textbook, and the student is expected to use the process to solve problems that are not solved in the textbook. The process is designed to be used in conjunction with the textbook, and the student is expected to use the process to solve problems that are not solved in the textbook.

**Step 1**

Step 1	Step 1	Step 1	Step 1
1. Write the equation in standard form.	2. Write the equation in standard form.	3. Write the equation in standard form.	4. Write the equation in standard form.
5. Write the equation in standard form.	6. Write the equation in standard form.	7. Write the equation in standard form.	8. Write the equation in standard form.
9. Write the equation in standard form.	10. Write the equation in standard form.	11. Write the equation in standard form.	12. Write the equation in standard form.

**Step 2**

Step 2	Step 2	Step 2	Step 2
1. Write the equation in standard form.	2. Write the equation in standard form.	3. Write the equation in standard form.	4. Write the equation in standard form.
5. Write the equation in standard form.	6. Write the equation in standard form.	7. Write the equation in standard form.	8. Write the equation in standard form.
9. Write the equation in standard form.	10. Write the equation in standard form.	11. Write the equation in standard form.	12. Write the equation in standard form.

**Step 3**

Step 3	Step 3	Step 3	Step 3
1. Write the equation in standard form.	2. Write the equation in standard form.	3. Write the equation in standard form.	4. Write the equation in standard form.
5. Write the equation in standard form.	6. Write the equation in standard form.	7. Write the equation in standard form.	8. Write the equation in standard form.
9. Write the equation in standard form.	10. Write the equation in standard form.	11. Write the equation in standard form.	12. Write the equation in standard form.

The student is expected to use the process to solve problems that are not solved in the textbook. The process is designed to be used in conjunction with the textbook, and the student is expected to use the process to solve problems that are not solved in the textbook. The process is designed to be used in conjunction with the textbook, and the student is expected to use the process to solve problems that are not solved in the textbook.

Fourth Year

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Chem. 354--Introd. to Biochem. or Chem. 350 and 355--General Biochemistry	5-6	Chem. 329--Food Analysis	5
F. T. 301--Food Processing	4	F. T. 206--Inspection Trip	0
F. T. 363--Introd. to Process Engr.	3	F. T. 302--Food Processing	4
Electives	3-4	F. T. 332--Principles of Sanitation in the Processing and Handling of Foods	2
Total	<u>16</u>	Electives	<u>5</u>
		Total	<u>16</u>

Humanities and Social Science Electives

A minimum of 15 hours must be selected from courses in anthropology, art, economics, foreign language, geography, history, landscape architecture, literature, music, philosophy, political science, psychology, religion, sociology, and speech. Social science courses offered by the Division of General Studies may be used to satisfy this requirement. Students contemplating continuation of their studies for an advanced degree are advised to elect one of the foreign languages.



Table 1

1950		1951		1952	
1	100	100	100	100	100
	100	100	100	100	100
	100	100	100	100	100
	100	100	100	100	100
	100	100	100	100	100
Total		Total		Total	
100		100		100	

Table 2

The following table shows the results of the survey conducted in 1950, 1951, and 1952. The data is presented in three columns, one for each year. The rows represent different categories of the survey. The total for each year is shown at the bottom of each column.

CURRICULUM IN FOOD TECHNOLOGY  
(for the Degree, Bachelor of Science in Food Technology)

58.

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_  
DATE \_\_\_\_\_

PREScribed COURSES:	HOURS	GRADE	HUMANITIES AND SOCIAL SCIENCES--	
Bact. 104	5		A minimum of 15 semester hours from:	
Bact. 308	5		anthro., art, econ., for. lang.,	
Botany 100	4		geog., hist., land. arch., lit.,	
			music, phil., pol. sci., psych.,	
			religion, soc., and speech	Earned:
Chem. 101 or 102	5-3			
Chem. 105	5			
Chem. 122	5			
Chem. 133	5			To be
Chem. 249 <sup>1/</sup>	3			earned:
Chem. 329	5			
Chem. 340-341 <sup>1/</sup>	3-1			
Chem. 354 or	5			
Chem. 350 and 355	6			
D.G.S. 111 <sup>2/</sup>	4			
D.G.S. 112 <sup>2/</sup>	4			
F. T. 201	3		OPEN ELECTIVES	
F. T. 202	3			
F. T. 206	0			
F. T. 260	4			TOTAL
F. T. 301	4			HOURS
F. T. 302	4			
F. T. 332	2			
F. T. 363	3			
Math. Placement Test or				
Math. 111 or 112	5-3			
Math. 114	2			
Math. 122	4			
Math. 132	5			
Physics 101	5			
Physics 102	5			
Mil.-Mil.	(1-1)			
Mil.-Mil.	(1-1)			
P.E.-P.E.	(1-1)			
P.E.-P.E.	(1-1)			

1/ Students adequately qualified may substitute Chem. 342 and 344, Physical Chemistry for Chem. 249 and 340-341.

2/ Rhetoric 101, 102, and Speech 101 may be substituted for D.G.S. 111 and 112.

130 hours, exclusive of regular military and P.E. are required for the degree. A minimum average of 3.0 is required for graduation. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at the U. of I. and a combined average of 3.0 for transfer and U. of I. work.





HORTICULTURAL FOOD CROPS CURRICULUM  
(for the degree of B.S. in Horticultural Food Crops)

59.

This curriculum is designed to prepare students for a wide variety of positions in the horticultural food industry. The number of requirements has been kept at a minimum to give flexibility and allow the student to progress in the field of his particular interest under the guidance of his adviser. A minimum of 136 hours of credit is required for graduation, including military and physical education.

The student may follow either one of two options:

Option 1 -- Production

This option requires 8 hours of chemistry and emphasizes crop production but includes enough on processing to give the student an insight into the interdependence of these phases and enhance his chances for advancement into positions requiring a knowledge of both. Graduates should be qualified for work in crop production or some phases of raw products research in the processing industry. Students interested in the production or handling of fresh fruit or vegetables will find this a suitable core curriculum.

<u>First Semester</u>		<u>First Year</u>	
	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Bot. 100--General Botany	4	Chem. 132--Elem. Org. Chem.	3
Chem. 111--General Chemistry	5	D.G.S. 112--Verbal Com.	4
D.G.S. 111--Verbal Com.	4	Hort. 100--Introd. Hort.	3
Physical Education	1	Math. 104--Elem. of Alg. & Trig.	3
Military (men)	1	Physical Education	1
		Military (men)	1
		Electives	2-3
Total	15	Total	17-18
		<u>Second Year</u>	
Bot. 120--Plant Physiology	5	Geol. 105--Agricultural Geology	3
F. T. 260--Raw Materials for Processing	4	Hort. 242--Vegetable Crops Prod.	3
Physics 101--General Physics (Mechanics, Heat, and Sound)	5	Physics 102--General Physics (Light, Electricity, and Magnetism)	5
Physical Education	1	Physical Education	1
Military (men)	1	Military (men)	1
		Electives	4
Total	16	Total	17
		<u>Third Year</u>	
Bact. 104--Elem. Bact.	5	Agron. 201--Soils	5
F. T. 201--Elem. of Food Tech.	3	Econ. 108--Elem. of Economics	3
Hort. 262--Tree and Small Fruit Culture	3	Entom. 101--Agric. Entomology	3
P. P. 317--Plant Path.	4	Electives	6
Elective	3		
Total	18	Total	17
		<u>Fourth Year</u>	
Electives	18	Electives	18
Total	18	Total	18

1/ Electives must include at least 12 hours of technical agriculture and 12 hours of humanities and social sciences (see next page).

2/ Students in this option will be allowed to enroll in F. T. 201 with the prerequisite of Chem. 132 instead of Chem. 133.





Option 2 -- Processing

This option requires 18 to 20 hours of chemistry and Food Technology 204 and 301 and trains the student for a position in quality control in the manufacture of horticultural food products. The increased chemistry requirement necessitates a modification in the sequence of required courses.

<u>First Semester</u>		<u>First Year</u>	
	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Bot. 100--General Botany	4	Chem. 105--Inorganic Chemistry and Qualitative Analysis	5
Chem. 101 or 102--General Chemistry	5-3	D.G.S. 112--Verbal Communication	4
D.G.S. 111--Verbal Communication	4	Geol. 105--Agricultural Geology	3
Physical Education	1	Math. 104--Elem. of Alg. & Trig.	3
Military (men)	1	Physical Education	1
Elective <sup>1/</sup>	3	Military (men)	1
Total	16-18	Total	17

<u>Second Year</u>		<u>Second Year</u>	
Chem. 122--Elem. Quant. Analysis	5	Bact. 104--Elem. Bact.	5
Hort. 100--Introd. to Hort.	3	Chem. 133--Elem. Organ. Chem.	5
Physics 101--General Physics (Mechanics, Heat, and Sound)	5	Physics 102--General Physics (Light, Electricity, and Magnetism)	5
Physical Education	1	Physical Education	1
Military (men)	1	Military (men)	1
Elective <sup>1/</sup>	2		
Total	17	Total	17

<u>Third Year</u>		<u>Third Year</u>	
Bot. 130--Plant Physiology	5	Agron. 201--Soils	5
Entom. 101--Agric. Entom.	3	Econ. 108--Elem. of Econ.	3
F. T. 201--Elem. of Food Tech.	3	Hort. 242--Veg. Crops Production	3
F. T. 260--Raw Materials for Processing	4	Electives <sup>1/</sup>	6
Elective <sup>1/</sup>	3		
Total	18	Total	17

<u>Fourth Year</u>		<u>Fourth Year</u>	
F. T. 301--Food Processing	4	F. T. 204--Elem. of Food Engin.	3
Hort. 262--Tree and Small Fruit Culture	3	Electives <sup>1/</sup>	13-15
P. P. 317--Plant Pathology	4		
Electives <sup>1/</sup>	6		
Total	17	Total	16-18

Humanities and Social Science Electives

For either option a minimum of 12 hours shall be selected from courses in anthropology, art, economics, foreign language, geography, history, landscape architecture, literature, music, philosophy, political science, psychology, religion, sociology, and speech. Social science courses offered by the Division of General Studies may be used to satisfy this requirement. Students who contemplate continuing their studies for an advanced degree are advised to elect one of the foreign languages.

<sup>1/</sup>Electives must include at least 5 hours of technical agriculture and 12 hours of humanities and social science (see above).



# Table 1.1. Summary

This table presents a summary of the data collected for the purpose of the study. The data were collected from a sample of 100 subjects who were selected from a larger population of 1,000 subjects. The data were collected over a period of 12 months. The data were collected from a sample of 100 subjects who were selected from a larger population of 1,000 subjects. The data were collected over a period of 12 months.

Group	Variable	Mean	Standard Deviation	Group	Variable	Mean	Standard Deviation
1	Age	25.5	3.2	1	Age	25.5	3.2
2	Gender	0.5	0.5	2	Gender	0.5	0.5
3	Education	12.5	1.5	3	Education	12.5	1.5
4	Income	15.0	2.0	4	Income	15.0	2.0
5	Marital Status	0.5	0.5	5	Marital Status	0.5	0.5
6	Religious Beliefs	0.5	0.5	6	Religious Beliefs	0.5	0.5
7	Political Views	0.5	0.5	7	Political Views	0.5	0.5
8	Health Status	0.5	0.5	8	Health Status	0.5	0.5
9	Employment Status	0.5	0.5	9	Employment Status	0.5	0.5
10	Family Size	2.5	1.0	10	Family Size	2.5	1.0
11	Number of Children	1.5	0.8	11	Number of Children	1.5	0.8
12	Number of Siblings	1.5	0.8	12	Number of Siblings	1.5	0.8
13	Number of Parents	1.5	0.8	13	Number of Parents	1.5	0.8
14	Number of Grandparents	1.5	0.8	14	Number of Grandparents	1.5	0.8
15	Number of Great-Grandparents	1.5	0.8	15	Number of Great-Grandparents	1.5	0.8
16	Number of Great-Great-Grandparents	1.5	0.8	16	Number of Great-Great-Grandparents	1.5	0.8
17	Number of Great-Great-Great-Grandparents	1.5	0.8	17	Number of Great-Great-Great-Grandparents	1.5	0.8
18	Number of Great-Great-Great-Great-Grandparents	1.5	0.8	18	Number of Great-Great-Great-Great-Grandparents	1.5	0.8
19	Number of Great-Great-Great-Great-Great-Grandparents	1.5	0.8	19	Number of Great-Great-Great-Great-Great-Grandparents	1.5	0.8
20	Number of Great-Great-Great-Great-Great-Great-Grandparents	1.5	0.8	20	Number of Great-Great-Great-Great-Great-Great-Grandparents	1.5	0.8

## Table 1.2. Summary

This table presents a summary of the data collected for the purpose of the study. The data were collected from a sample of 100 subjects who were selected from a larger population of 1,000 subjects. The data were collected over a period of 12 months. The data were collected from a sample of 100 subjects who were selected from a larger population of 1,000 subjects. The data were collected over a period of 12 months.

The data were collected from a sample of 100 subjects who were selected from a larger population of 1,000 subjects. The data were collected over a period of 12 months. The data were collected from a sample of 100 subjects who were selected from a larger population of 1,000 subjects. The data were collected over a period of 12 months.

## HORTICULTURAL FOOD CROPS CURRICULUM (Continued)

Suggested Agriculture Electives -- for Either Option

	<u>Hours</u>
Agr. 114--Agricultural Journalism	3
Agr. 216--Experimental and Biological Statistics	3
Agron. 306--Fertilizers and Their Soil Reactions	3
Agron. 311--Physical Edaphology	3
F. T. 202--Elements of Food Technology	3
F. T. 302--Food Processing	4
F. T. 332--Principles of Sanitation in the Processing and Handling of Foods	2
Hort. 110--Plant and Animal Genetics	3
Hort. 201--Special Problems	3-5
Plant Pathology 307--Fruit Diseases	3
Plant Pathology 308--Vegetable and Canning Crop Diseases	3
Hort. 333--Marketing Horticultural Products	3
Hort. 345--Growth and Development of Vegetable Crops	4
Hort. 363--Advanced Pomology	4
Hort. 382--Improvement of Horticultural Crops by Breeding	3

Suggested Nonagriculture Electives -- for Either Option

Accy. 201--Fundamentals of Accounting	3
Bus. Law 100--Basic Principles of Business Law	3
Geog. 211--Agricultural Climatology	3
Phil. 102--Logic	3
Pol. Sci. 150--American Government; Organization and Power	3
Pol. Sci. 191--Principles of Political Science	4
Psych. 100--Introduction to Psychology	4
Speech 111--Business and Professional Speaking	2
Mgmt. 101--Industrial Organization and Management	3
Mgmt. 205--Production Planning and Control	3

THEORY OF THE EARTH AND ITS HISTORY

CHAPTER I. THE EARTH AND ITS HISTORY

The Earth is a sphere, and its surface is covered by water. The land is divided into continents and islands. The continents are Asia, Europe, Africa, America, and Australia. The islands are scattered in the oceans. The Earth is divided into seven parts, called the seven continents. The continents are Asia, Europe, Africa, America, Australia, Antarctica, and Oceania. The Earth is divided into five parts, called the five oceans. The oceans are the Atlantic, the Indian, the Pacific, the Arctic, and the Antarctic. The Earth is divided into four parts, called the four seasons. The seasons are spring, summer, autumn, and winter. The Earth is divided into three parts, called the three states of matter. The states of matter are solid, liquid, and gas. The Earth is divided into two parts, called the two hemispheres. The hemispheres are the Northern Hemisphere and the Southern Hemisphere. The Earth is divided into one part, called the one world. The world is the Earth.

CHAPTER II. THE EARTH AND ITS HISTORY

The Earth is a sphere, and its surface is covered by water. The land is divided into continents and islands. The continents are Asia, Europe, Africa, America, and Australia. The islands are scattered in the oceans. The Earth is divided into seven parts, called the seven continents. The continents are Asia, Europe, Africa, America, Australia, Antarctica, and Oceania. The Earth is divided into five parts, called the five oceans. The oceans are the Atlantic, the Indian, the Pacific, the Arctic, and the Antarctic. The Earth is divided into four parts, called the four seasons. The seasons are spring, summer, autumn, and winter. The Earth is divided into three parts, called the three states of matter. The states of matter are solid, liquid, and gas. The Earth is divided into two parts, called the two hemispheres. The hemispheres are the Northern Hemisphere and the Southern Hemisphere. The Earth is divided into one part, called the one world. The world is the Earth.



**CURRICULUM IN HORTICULTURAL FOOD CROPS**  
(for degree of B.S. in Horticultural Food Crops)

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_  
OPTION \_\_\_\_\_  
DATE \_\_\_\_\_

NON-AGRICULTURE PRESCRIBED:		HOURS	GRADE	AGRICULTURE PRESCRIBED FOR BOTH OPTIONS--The total agriculture prescribed and agr. elective courses must equal at least 40 hours.			
Bact. 104		5					
Botany 100		4			HOURS	GRADE	Trans. _____
Botany 130		5		Agron. 201	5		Res. _____
				Entom. 101	3		
D. G. S. 111 <sup>1/</sup>		4		F. T. 201	3		
D. G. S. 112 <sup>1/</sup>		4		F. T. 260	4		
							EARNED
Econ. 108		3		Hort. 100	3		
Geol. 105		3		Hort. 242	3		
				Hort. 262	3		
Math. 104		3		Plant Path. 317	4		
Physics 101		5					TO BE
Physics 102		5					EARNED
				ADDITIONAL PRESCRIBED COURSES FOR OPTION 2:			
Mil.-Mil.	1-1			F. T. 204	3		
Mil.-Mil.	1-1			F. T. 301	4		
P.E.-P.E.	1-1						
P.E.-P.E.	1-1						
				AGRICULTURAL ELECTIVES--Option 1--			
				Minimum of 12 hr.; Option 2--			
				Minimum of 5 hr.			
CHEMISTRY PRESCRIBED: (Option 1)							A TRANSFER STUDENT MUST EARN AT LEAST 1/2 OF HIS AGR. HOURS IN RESIDENCE AT UNIVERSITY OF ILLINOIS
Chem. 111		5					
Chem. 132		3					
CHEMISTRY PRESCRIBED: (Option 2)							
Chem. 101 or 102		5-3					
Chem. 105		5					
Chem. 122		5					
Chem. 133		5					
HUMANITIES AND SOCIAL SCIENCE--Minimum of 12 hr. from anthro., art, econ., for. lang., geog., hist., land arch. lit., music, phil., pol. sci., psych., religion, soc., and speech							
				OPEN ELECTIVES:			TOTAL HOURS:

136 hours, inclusive of regular military and P. E., are required for the degree as outlined above. A minimum average of 3.0 is required for graduation. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at the University of Illinois and a combined average of 3.0 for transfer and University of Illinois work.

<sup>1/</sup> Rhet. 101, 102, and Speech 101 may be taken instead of D. G. S. 111 and 112.





**CURRICULUM IN RESTAURANT MANAGEMENT**  
(for the degree of Bachelor of Science in Restaurant Management)

The curriculum in restaurant management prepares students (both men and women) for managerial positions in restaurants and other commercial food service units. It also gives them basic training for work as purchasing agents, kitchen equipment and layout specialists, food inspectors, and for other allied occupations. A total of 130 hours of credit is required for graduation.

<u>First Semester</u>		<u>First Year</u>		<u>Second Semester</u>	
	Hours				Hours
Accy. 101--Prin. of Acctg.	3		Accy. 105--Acctg. Procedure		3
American or English Lit.	3		Chem. 132--Elem. Organic Chem.		3
Chem. 101 or 102 or 111--Gen. Chem.	5-3		American or English Lit.		3
Rhet. 101--Rhet. and Comp.	3		Rhet. 102--Rhet. and Comp.		3
Physical Education	1		Speech 101--Principles of		
Military (men)	1		Effective Speaking		3
			Physical Education		1
			Military (men)		1
<b>Total</b>	<b>14-16</b>		<b>Total</b>		<b>17</b>
		<u>Second Year</u>			
	Hours				Hours
Econ. 108--Elements of Econ.	3		Bact. 104--Elementary Bact.		5
Home Ec. 130--Intro. to Foods and Nutrition	2		Home Ec. 131--Foods		3
Physiol. 103--Intro. to Human Physiology	4		Psych. 103--Human Behavior		4
Physical Education	1		Social 100--Principles of Soc.		3
Military (men)	1		Physical Education		1
Electives	3-6		Military (men)		1
<b>Total</b>	<b>15-17</b>		<b>Total</b>		<b>17</b>
		<u>Third Year</u>			
	Hours				Hours
An. Sci. 104--Selection and Use of Meat	2		Accy. 106--Elem. Cost Acctg.		3
Bus. Law 261--Summary of Bus. Law	3		Home Econ. 240--Quantity Cookery		5
Econ. 240--Labor Problems	3		Management 101--Industrial Org. and Management		3
Home Econ. 220--Dietetics	3		Rhet. 151--Bus. Letter Writing		3
Home Econ. 253--Restaurant Interiors <sup>1/</sup> , or Electives	3		Electives		3
Mktg. 101--Principles of Mktg.	3				
<b>Total</b>	<b>17</b>		<b>Total</b>		<b>17</b>
		<u>Fourth Year</u>			
	Hours				Hours
Home Econ. 253--Restaurant Interiors <sup>1/</sup> , or Electives	3		Home Econ. 350--Inst. Organization and Management		4
Home Econ. 345--Institution Management	3		Home Econ. 355--Advanced Quant. Cook. and Catering		3
Mgmt. 248--Personnel Admin.	3		Electives		9-11
Electives	7-8				
<b>Total</b>	<b>16-17</b>		<b>Total</b>		<b>16-18</b>

Note: Two summers of a minimum of eight weeks each of practical restaurant experience are required and should be completed before registering in Home Econ. 355. This experience would normally come at the end of the second and third years.

<sup>1/</sup> Offered in alternate years.





CURRICULUM IN RESTAURANT MANAGEMENT  
(for the degree of B.S. in Restaurant Management)

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_  
DATE \_\_\_\_\_

PREScribed COURSES	HOURS	GRADE	PREScribed COURSES	HOURS	GRADE
Accy. 101	3		Rhet. 101	3	
Accy. 106	3		Rhet. 102	3	
Animal Sci. 104	2		Rhet. 151	3	
Bact. 104	5		Soc. 100	3	
Bus. Law 261	3		Speech 101	3	
Chem. 111 or 101 or 102	5-3		*Summer Practice 1	0	
Chem. 132	3		*Summer Practice 2	0	
Econ. 108	3		OPEN ELECTIVES:		
Econ. 240	3				
Eng. Lit. or (total of Amer. Lit. 6 hours)	3-4 3-2				
Home Econ. 130	2				
Home Econ. 131	3				
Home Econ. 220	3				
Home Econ. 240	5				
Home Econ. 253	3				
Home Econ. 345	3				
Home Econ. 350	4				
Home Econ. 355	3				
Management 101	3				
Management 248	3				
Marketing 101	3				
Physiol. 103	4				
Psychol. 103	4				
Military (for men)	1-1		AVERAGE (Minimum of 3.0 required for graduation)	TOTAL HOURS (130 hours, including P.E. and Mil.)	
Military (for men)	1-1				
P.E.M. or P.E.W.	1-1				
P.E.M. or P.E.W.	1-1				

\*Two summers (or equivalent) of a minimum of eight weeks each of practical restaurant experience are required and must be completed before registering in Home Econ. 355. This experience would normally come at the end of the second and third years. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at the U. of I. and a combined average of 3.0 for transfer and U. of I. work.

COMPARISON OF THEORETICAL AND EXPERIMENTAL RESULTS  
(For the purpose of the present investigation)

TABLE OF CONTENTS

Page

THEORETICAL RESULTS		EXPERIMENTAL RESULTS	
Calculation	Result	Calculation	Result
1.0	1.00	1.0	1.00
1.1	1.10	1.1	1.10
1.2	1.21	1.2	1.21
1.3	1.33	1.3	1.33
1.4	1.46	1.4	1.46
1.5	1.59	1.5	1.59
1.6	1.72	1.6	1.72
1.7	1.85	1.7	1.85
1.8	1.98	1.8	1.98
1.9	2.11	1.9	2.11
2.0	2.24	2.0	2.24
2.1	2.37	2.1	2.37
2.2	2.50	2.2	2.50
2.3	2.63	2.3	2.63
2.4	2.76	2.4	2.76
2.5	2.89	2.5	2.89
2.6	3.02	2.6	3.02
2.7	3.15	2.7	3.15
2.8	3.28	2.8	3.28
2.9	3.41	2.9	3.41
3.0	3.54	3.0	3.54
3.1	3.67	3.1	3.67
3.2	3.80	3.2	3.80
3.3	3.93	3.3	3.93
3.4	4.06	3.4	4.06
3.5	4.19	3.5	4.19
3.6	4.32	3.6	4.32
3.7	4.45	3.7	4.45
3.8	4.58	3.8	4.58
3.9	4.71	3.9	4.71
4.0	4.84	4.0	4.84
4.1	4.97	4.1	4.97
4.2	5.10	4.2	5.10
4.3	5.23	4.3	5.23
4.4	5.36	4.4	5.36
4.5	5.49	4.5	5.49
4.6	5.62	4.6	5.62
4.7	5.75	4.7	5.75
4.8	5.88	4.8	5.88
4.9	6.01	4.9	6.01
5.0	6.14	5.0	6.14
5.1	6.27	5.1	6.27
5.2	6.40	5.2	6.40
5.3	6.53	5.3	6.53
5.4	6.66	5.4	6.66
5.5	6.79	5.5	6.79
5.6	6.92	5.6	6.92
5.7	7.05	5.7	7.05
5.8	7.18	5.8	7.18
5.9	7.31	5.9	7.31
6.0	7.44	6.0	7.44
6.1	7.57	6.1	7.57
6.2	7.70	6.2	7.70
6.3	7.83	6.3	7.83
6.4	7.96	6.4	7.96
6.5	8.09	6.5	8.09
6.6	8.22	6.6	8.22
6.7	8.35	6.7	8.35
6.8	8.48	6.8	8.48
6.9	8.61	6.9	8.61
7.0	8.74	7.0	8.74
7.1	8.87	7.1	8.87
7.2	9.00	7.2	9.00
7.3	9.13	7.3	9.13
7.4	9.26	7.4	9.26
7.5	9.39	7.5	9.39
7.6	9.52	7.6	9.52
7.7	9.65	7.7	9.65
7.8	9.78	7.8	9.78
7.9	9.91	7.9	9.91
8.0	10.04	8.0	10.04
8.1	10.17	8.1	10.17
8.2	10.30	8.2	10.30
8.3	10.43	8.3	10.43
8.4	10.56	8.4	10.56
8.5	10.69	8.5	10.69
8.6	10.82	8.6	10.82
8.7	10.95	8.7	10.95
8.8	11.08	8.8	11.08
8.9	11.21	8.9	11.21
9.0	11.34	9.0	11.34
9.1	11.47	9.1	11.47
9.2	11.60	9.2	11.60
9.3	11.73	9.3	11.73
9.4	11.86	9.4	11.86
9.5	11.99	9.5	11.99
9.6	12.12	9.6	12.12
9.7	12.25	9.7	12.25
9.8	12.38	9.8	12.38
9.9	12.51	9.9	12.51
10.0	12.64	10.0	12.64

The above table shows the comparison of theoretical and experimental results for the purpose of the present investigation. The theoretical results are calculated from the formulae given in the preceding pages, and the experimental results are obtained from the observations made during the course of the experiment. The agreement between the two sets of results is very good, and it is evident that the theoretical formulae are well adapted to the facts of the case.



## PREFORESTRY TWO-YEAR CURRICULUM

The object of the two-year preforestry curriculum is to prepare young men to enter a school of professional forestry with two years' advanced standing. The preforestry curriculum provides a course of study similar to that given during the first two years at a school of forestry. Completion of the preforestry curriculum requires a minimum of 60 hours of work in addition to the University requirements in military training and physical education. Many forestry schools have adopted high scholarship requirements and will not accept students who do not maintain high grades. Some of them will not accept out-of-state students whose averages in their preforestry work are below 3.5. A student who wishes to follow this curriculum should declare his intention as soon as possible and ask to be assigned to a faculty adviser in the Department of Forestry. The faculty adviser should be consulted about the choice of electives best suited to admission to the particular school of forestry which the individual expects to enter.

### First Year

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Botany 100--General Botany	4	Chem. 101 or 102--Gen. Chem.	5-3
Forestry 101--General Forestry	3	G. E. 101--Engineering Drawing	3
Math. 111 or 112--Algebra <sup>1/</sup>	5-3	Math. 114--Plane Trigonometry <sup>1/</sup>	2
Rhet. 101--Rhetoric and Comp.	3	Rhet. 102--Rhetoric and Comp.	3
Physical Education	1	Zoology 104--Elem. Zoology	4
Military (men)	1	Physical Education	1
		Military (men)	1
Total	<u>15-17</u>	Total	<u>17-19</u>

### Second Year

C. E. 115--General Surveying	3	Agronomy 201--Soils	5
Econ. 108--Elements of Economics	3	Physical Education	1
Geology 105--Agricultural Geology	3	Military (men)	1
Physical Education	1	Electives	11
Military (men)	1		
Electives	<u>5-7</u>		
Total	<u>16-18</u>	Total	<u>18</u>

### Electives

Bot. 130--Plant Physiology (I)	5
Bot. 160--Introductory Plant Taxonomy (II)	3
Chem. 132--Elementary Organic Chemistry (I, II)	3
Geog. 111--Introduction to Meteorology (I, II)	3
Physics 101--Gen. Physics (Mechanics, Heat, and Sound) (I)	5
Physics 102--Gen. Physics (Light, Elec., and Magnetism) (II)	5
Pol. Sci. 150--American Government: Org. and Powers (I, II)	3
Speech 101--Principles of Effective Speaking (I, II)	3

<sup>1/</sup> Students who pass the algebra portion of the mathematics placement test are exempt from the algebra requirement; those who pass both the algebra and trigonometry portion of this test may begin their college mathematics with analytic geometry.

# RESEARCH AND ANALYSIS DIVISION

The object of the research and analysis division is to provide the Bureau with a means of conducting research and analysis in the field of international relations. The division is organized into two main branches, the Research Branch and the Analysis Branch. The Research Branch is responsible for the collection and analysis of information from various sources, including newspapers, magazines, books, and other publications. The Analysis Branch is responsible for the interpretation and evaluation of this information, and for the preparation of reports and studies. The division is headed by a Chief of Division, who is assisted by a Deputy Chief of Division. The division is also organized into several sections, each of which is headed by a Section Chief. The sections are responsible for the following tasks: (1) the collection and analysis of information from various sources; (2) the interpretation and evaluation of this information; (3) the preparation of reports and studies; (4) the dissemination of information to the Bureau and other agencies; and (5) the maintenance of the division's files and records.

## 1945 Year

Section	Number of Reports	Number of Studies	Total
Research Branch	12	8	20
Analysis Branch	10	6	16
Total	22	14	36

## 1946 Year

Section	Number of Reports	Number of Studies	Total
Research Branch	15	10	25
Analysis Branch	12	8	20
Total	27	18	45

## 1947 Year

Section	Number of Reports	Number of Studies	Total
Research Branch	18	12	30
Analysis Branch	15	10	25
Total	33	22	55

The research and analysis division has been organized into two main branches, the Research Branch and the Analysis Branch. The Research Branch is responsible for the collection and analysis of information from various sources, including newspapers, magazines, books, and other publications. The Analysis Branch is responsible for the interpretation and evaluation of this information, and for the preparation of reports and studies. The division is headed by a Chief of Division, who is assisted by a Deputy Chief of Division. The division is also organized into several sections, each of which is headed by a Section Chief. The sections are responsible for the following tasks: (1) the collection and analysis of information from various sources; (2) the interpretation and evaluation of this information; (3) the preparation of reports and studies; (4) the dissemination of information to the Bureau and other agencies; and (5) the maintenance of the division's files and records.







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1958/59

# A Handbook for Agricultural Students and Their Advisers



Mumford Hall, College of Agriculture, University of Illinois

By  
C. D. Smith, Assistant Dean

University of Illinois College of Agriculture  
Urbana, Illinois

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## CONTENTS

Name of Student: \_\_\_\_\_

Local Address: \_\_\_\_\_, \_\_\_\_\_  
(Number and Street) (Champaign or Urbana)

Home Address \_\_\_\_\_

Name of Faculty Adviser: \_\_\_\_\_

Office Address: \_\_\_\_\_ Phone: \_\_\_\_\_

Office Hours: \_\_\_\_\_





## Student Objectives

Every student who enters upon a University program should set up an educational goal that fits his abilities and interests and has such appeal for him that he will exert the effort and make the sacrifices necessary to complete his program. Although freshman interviews show that a high percentage of entering students plan to graduate, fewer than half of them complete their college work. Only a small percentage lack the inherent capacity to complete a well-selected college program with realistic goals based on abilities and interests. Most of those who drop out along the way do so because they have no goals which they are determined to reach.

The importance of setting adequate goals for yourself is shown in the following statement:

"Our skill in reaching objectives may depend in no small degree upon the clarity with which we see them. Once our objectives are clearly visible the appropriate steps for reaching them may be initiated--University objectives are concerned with the whole fabric of higher education rather than the achievement of predetermined and often narrow goals in the shortest possible time. . . . It has been suggested that four of the principal goals of professional education are the production of students possessing at graduation: (1) a minimum body of basic and fundamental knowledge which is commonly possessed by members of the profession; (2) skill in handling source materials and in adding to one's body of knowledge; (3) the ability to think, analyze, and act in the presence of new or unprecedented situations; and (4) an ethical attitude toward the uses to which a member of the profession may put his knowledge and skill."<sup>1/</sup>

Many students are inadequately motivated because their goals have been too narrowly defined. Hence the basic or fundamental subjects are termed uninteresting and impractical. Selecting courses dealing only with the methods of performing the duties of a particular job, without basing the practical skills on deeply grounded principles, will result in a perishable education. Today's world is characterized by rapid change. Few jobs are done the same way for more than ten years. The more deeply rooted your understanding, the less likely you are to be uprooted by the swift winds of change.

## Student Plans and Student Guidance

The fact that many students arrive at the University with undefined educational goals is not a serious handicap, but it can become serious if they do not begin to set up clear-cut goals in line with their capacities and interests soon after they arrive. Each freshman entering the University of Illinois is given a battery of guidance tests to help him enter upon and follow an educational program suited to his abilities. But tests alone are not enough. The goals you set must be individually chosen and must command your interests, loyalties, and devotion to the point where the effort and sacrifice necessary to attain them will be exerted.

The table on the following pages shows the range and pattern of employment normally undertaken by graduates in agriculture. It is an actual record of jobs held in 1950 by graduates. Information about trends in employment and current calls for trained personnel can be obtained from the Associate Dean's Office, 104 Mumford Hall, or from your faculty advisor.

<sup>1/</sup> Report of the Special Committee of the National Association of State Universities to Study Postwar Educational Problems--Mimeograph, 1944.



## THEORY OF THE EARTH

The earth is a sphere of about 8000 miles in diameter. It is composed of a solid inner core, a liquid outer core, and a solid mantle. The crust is the thin outer layer of the earth, which is composed of rocks and minerals. The crust is divided into tectonic plates, which move around the earth. The mantle is the layer of the earth between the crust and the core. It is composed of hot, molten rock. The core is the innermost layer of the earth. It is composed of iron and nickel. The core is divided into a solid inner core and a liquid outer core. The earth's magnetic field is generated by the movement of the liquid outer core.

The theory of the earth is a branch of geology. It deals with the origin and development of the earth. It is a scientific study of the earth's history and its future.

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The University has provided the following five main agencies to give you help and guidance in selecting and planning your individual program:

1. The Student Counseling Bureau, 311 Administration (E), administers and interprets tests and counsels students on personal problems.
2. The Faculty Adviser, a member of the teaching staff who is chosen by the student or assigned by the Associate Dean's office, helps the student with the ordinary problems of course selection and individual activities. Each faculty adviser serves only as many students as he can know well. If you fail to become acquainted with your adviser, the purpose of the advisory plan is defeated. Your faculty adviser is glad to assist you--make use of him.

It is particularly important for you to seek the counsel of your faculty adviser before and during registration in order that your program may be carefully planned. Occasionally students turn to anyone who will sign a study list. This is likely to result in a short-sighted semester program which will not lead directly toward your objective.

A faculty adviser is assigned to new freshmen without consultation, because the freshmen usually are not acquainted with members of the staff. During the second year, the student is invited to select his own adviser with the help of the staff in the Associate Dean's office. If at any time you wish to change programs or advisers, you should come to the Associate Dean's office.

3. The Instructor is a specialist in his field, well acquainted with the subject matter and its related employments. Do not hesitate to discuss your problems with your instructors. They are here to serve you. They can provide channels through which you may see new opportunities. To locate instructors, use the Staff Directory.
4. The Dean and the Associate Dean of the college are responsible for administering student programs and for keeping records. The Associate Dean's office is the principal center for information about college and university regulations, grade requirements, credits to be earned, honors, employment opportunities, and many other facts concerning your educational progress. You should feel free to call on this office with any problem on which you feel you need help.
5. The office and personnel headed by the Dean of Students, 152 Administration (W), including the Dean of Men, 157 Administration (W), the Dean of Women, 100 English Building, the Health Service, Davenport House, and the Director of Residence Halls and Student Housing, 108 Illini Hall, are ready to serve all students, particularly with relation to problems outside the area of formal education.

THE UNITED STATES OF AMERICA  
DO hereby certify that the following is a true and correct copy of the original as the same appears on file in the Department of the Interior.

WITNESSETH my hand and the seal of the Department of the Interior at Washington, D.C., this 1st day of January, 1901.

JOHN W. FOSTER, Secretary of the Interior.  
By \_\_\_\_\_, Deputy Secretary of the Interior.  
In testimony whereof, I have hereunto set my hand and the seal of the Department of the Interior at Washington, D.C., this 1st day of January, 1901.

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## JOB DISTRIBUTION AND SALARIES OF AGRICULTURAL GRADUATES AS OF 1950

Job title	Graduates		Salary <sup>1/</sup>		Years since graduation				
	No.	% of total	No. re- porting	Average salary	1-10	11-20	21-30	31-40	41-50
<b>EDUCATIONAL WORKERS</b>									
College Teachers (total)	143	5.61	115	\$5,918	46	29	37	29	2
Grad. Assistants	22	.86	-	-	21	1	-	-	-
Instructors	17	.67	16	4,536	8	5	3	1	-
Assistant Professors	30	1.18	27	4,922	11	9	8	2	-
Associate Professors	21	.82	20	5,685	3	6	11	1	-
Professors	53	2.08	52	6,951	3	8	15	25	2
College Administrators	9	.35	8	8,035	1	2	3	3	-
County Agents (Farm Advisers)	92	3.61	89	5,345	22	33	21	16	-
Asst. County Agents & Youth Advisers	49	1.92	49	3,520	47	2	-	-	-
Extension Specialists & Directors	29	1.14	29	5,666	6	7	8	8	-
High School Teachers	431	16.92	391	4,356	233	81	87	30	-
Total Educational Workers	753	29.56	681	4,788	355	154	156	86	2
<b>PROFESSIONAL TECHNICIANS</b>									
Agronomists (total)	101	3.97	95	5,142	39	27	23	12	0
Soil Conservation Service	53	2.08	50	4,453	23	15	11	4	0
Soils	26	1.02	24	5,584	8	5	9	4	0
Crops	22	.86	21	6,278	8	7	3	4	0
Animal Husbandmen	20	.79	16	4,938	14	4	2	0	0
Chemists and Bacteriologists	24	.94	19	6,355	10	4	7	3	0
Dairy Husbandmen	17	.67	16	4,010	12	4	0	1	0
Economists & Statisticians	49	1.92	47	6,897	18	14	13	4	0
Engineers (Agr. & Others)	22	.86	19	5,096	8	4	5	5	0
Entomologists & Zoologists	9	.35	8	5,980	0	2	6	0	1
Farmers Home Administration	23	.90	20	4,881	8	8	4	3	0
Horticulturists	10	.39	7	6,209	2	1	5	2	0
Inspectors (Grain, Seed, & Feed)	18	.71	16	4,653	8	5	4	1	0
Total Professional Technicians	293	11.50	263	5,463	119	73	69	31	1
<b>FARMERS &amp; FARM MANAGERS</b>									
Farmers (total)	540	21.20	264	6,162	213	139	99	74	15
Owner-Operators	195	7.66	71	7,787	18	30	72	61	14
Partnerships	143	5.61	81	5,450	90	38	12	3	0
Tenants	194	7.62	106	5,851	97	71	15	10	1
Farm Hands	8	.31	6	2,033	8	0	0	0	0
Farm Managers	113	4.44	96	5,000	49	34	16	10	4
Total Farmers & Farm Managers	653	25.64	360	5,852	262	173	115	84	19

<sup>1/</sup> Readers should keep in mind the fact that salaries listed are those reported for the year 1950 and do not reflect general increases that have taken place since that time.





## JOB DISTRIBUTION AND SALARIES OF AGRICULTURAL GRADUATES AS OF 1950 - cont.

Job title	Graduates		Salary		Years since graduation				
	No.	% of total	No. re- porting	Average salary	1-10	11-20	21-30	31-40	41-50
<b>BUSINESS &amp; INDUSTRY</b>									
Managers and Supervisors	233	9.15	208	\$8,148	73	75	58	24	3
Agriculture Cooperatives	18	.71	18	6,207	8	4	5	1	0
Dairy Manufactures	65	2.55	57	8,529	19	26	15	5	0
Fruits, Vegetables, & Produce	17	.67	13	6,336	8	4	1	4	0
Grain, Seed, Feed, Fertilizer	50	1.96	45	9,288	14	15	16	4	1
Hatcheries	11	.43	7	6,641	3	6	1	1	0
Livestock Marketing & Meat Packing	16	.63	16	4,108	7	2	4	2	1
Machinery, Equipment, & Service	53	2.08	49	8,629	14	17	15	6	1
Miscellaneous Business & Service	3	.12	3	20,500	0	1	1	1	0
Salesmen & Sales Managers	176	6.91	153	6,378	84	38	31	19	4
Agricultural Chemicals	8	.31	8	6,388	5	3	0	0	0
Dairy Products	16	.63	14	6,700	8	7	1	0	0
Feed	18	.71	16	5,351	12	3	2	1	0
Fertilizer	20	.79	18	4,703	12	4	3	1	0
Grain, Grain Products, & Seed	20	.79	19	6,169	8	5	5	1	1
Insurance	48	1.88	36	7,510	24	8	6	8	2
Livestock Products (Meat, Eggs)	8	.31	8	4,510	8	0	0	0	0
Machinery & Equipment	21	.82	18	7,683	5	5	6	4	1
Miscellaneous Products & Equipment	17	.67	16	6,164	2	3	8	4	0
Owners & Operators, Miscellaneous, Non-Agricultural Businesses	31	1.22	23	12,470	3	6	6	15	1
Florists, Nursery, & Landscaping	82	3.22	58	7,488	16	30	20	15	1
Farm Loans & Appraisal	47	1.85	47	5,773	8	21	7	11	0
Bank Officials	16	.63	15	9,685	2	3	6	5	0
Real Estate & Loan Agents	11	.43	8	9,512	1	0	6	4	0
Journalism, Radio & Advertising	37	1.45	29	8,570	11	8	10	8	0
Public Relations	9	.35	9	8,581	2	2	4	0	1
Laboratory Technicians	8	.31	8	2,981	7	0	1	0	0
Total Business & Industry	650	25.52	558	7,588	207	183	149	101	10
<b>MISCELLANEOUS PROFESSIONS &amp; OTHERS</b>									
Doctors & Dentists	11	.43	-	-	1	3	3	3	1
Veterinarians	5	.20	-	-	5	0	0	0	0
Lawyers	11	.43	-	-	7	1	2	1	0
Ministers & Missionaries	11	.43	7	4,200	3	1	5	2	0
Public Officials (Government)	42	1.65	35	5,989	7	5	18	11	1
Army, Navy, and Air Force	22	.86	19	6,009	9	10	2	1	0
Students (Graduate & Professional)	46	1.81	-	-	42	2	2	0	0
Retired & Disabled	26	1.02	-	-	2	0	3	19	2
General Miscellaneous	24	.94	18	4,362	10	6	5	3	0
Totals	198	7.77	79	5,465	85	28	40	40	4
<b>GRAND TOTAL</b>	<b>2,547</b>	<b>99.99</b>	<b>1,941</b>	<b>\$ 5,909</b>	<b>1,029</b>	<b>611</b>	<b>529</b>	<b>342</b>	<b>36</b>



DATE					PAGE		REMARKS
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1903	4	4	4	4	4	4	4
1904	5	5	5	5	5	5	5
1905	6	6	6	6	6	6	6
1906	7	7	7	7	7	7	7
1907	8	8	8	8	8	8	8
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1922	23	23	23	23	23	23	23
1923	24	24	24	24	24	24	24
1924	25	25	25	25	25	25	25
1925	26	26	26	26	26	26	26
1926	27	27	27	27	27	27	27
1927	28	28	28	28	28	28	28
1928	29	29	29	29	29	29	29
1929	30	30	30	30	30	30	30
1930	31	31	31	31	31	31	31
1931	32	32	32	32	32	32	32
1932	33	33	33	33	33	33	33
1933	34	34	34	34	34	34	34
1934	35	35	35	35	35	35	35
1935	36	36	36	36	36	36	36
1936	37	37	37	37	37	37	37
1937	38	38	38	38	38	38	38
1938	39	39	39	39	39	39	39
1939	40	40	40	40	40	40	40
1940	41	41	41	41	41	41	41
1941	42	42	42	42	42	42	42
1942	43	43	43	43	43	43	43
1943	44	44	44	44	44	44	44
1944	45	45	45	45	45	45	45
1945	46	46	46	46	46	46	46
1946	47	47	47	47	47	47	47
1947	48	48	48	48	48	48	48
1948	49	49	49	49	49	49	49
1949	50	50	50	50	50	50	50
1950	51	51	51	51	51	51	51
1951	52	52	52	52	52	52	52
1952	53	53	53	53	53	53	53
1953	54	54	54	54	54	54	54
1954	55	55	55	55	55	55	55
1955	56	56	56	56	56	56	56
1956	57	57	57	57	57	57	57
1957	58	58	58	58	58	58	58
1958	59	59	59	59	59	59	59
1959	60	60	60	60	60	60	60
1960	61	61	61	61	61	61	61
1961	62	62	62	62	62	62	62
1962	63	63	63	63	63	63	63
1963	64	64	64	64	64	64	64
1964	65	65	65	65	65	65	65
1965	66	66	66	66	66	66	66
1966	67	67	67	67	67	67	67
1967	68	68	68	68	68	68	68
1968	69	69	69	69	69	69	69
1969	70	70	70	70	70	70	70
1970	71	71	71	71	71	71	71
1971	72	72	72	72	72	72	72
1972	73	73	73	73	73	73	73
1973	74	74	74	74	74	74	74
1974	75	75	75	75	75	75	75
1975	76	76	76	76	76	76	76
1976	77	77	77	77	77	77	77
1977	78	78	78	78	78	78	78
1978	79	79	79	79	79	79	79
1979	80	80	80	80	80	80	80
1980	81	81	81	81	81	81	81
1981	82	82	82	82	82	82	82
1982	83	83	83	83	83	83	83
1983	84	84	84	84	84	84	84
1984	85	85	85	85	85	85	85
1985	86	86	86	86	86	86	86
1986	87	87	87	87	87	87	87
1987	88	88	88	88	88	88	88
1988	89	89	89	89	89	89	89
1989	90	90	90	90	90	90	90
1990	91	91	91	91	91	91	91
1991	92	92	92	92	92	92	92
1992	93	93	93	93	93	93	93
1993	94	94	94	94	94	94	94
1994	95	95	95	95	95	95	95
1995	96	96	96	96	96	96	96
1996	97	97	97	97	97	97	97
1997	98	98	98	98	98	98	98
1998	99	99	99	99	99	99	99
1999	100	100	100	100	100	100	100

## CURRICULA AND MAJORS AS EDUCATIONAL PROGRAMS

The College of Agriculture has, excluding home economics, ten curricula with various majors or options leading to degrees.

The curricula are:

1. General Curriculum in Agriculture with majors in:
  - a. Agricultural Economics
  - b. Agricultural Mechanization
  - c. Agronomy
  - d. Animal Science
  - e. Dairy Science
  - f. Horticulture
  - g. General Agriculture
2. General Curriculum in Agriculture with major for teachers of Vocational Agriculture
3. Agricultural Science with options in:
  - a. Animal, plant, or soil science
  - b. Agricultural economics, rural sociology, or agricultural law
  - c. Agricultural engineering--five-year combined program in Agricultural Science and Agricultural Engineering
4. Dairy Technology
5. Floriculture
6. Food Technology
7. Forest Production
8. Wood Technology and Utilization
9. Horticultural Food Crops
10. Restaurant Management

Curricula are educational programs carefully planned to guide students whose educational goals are within certain related areas. They contain:

1. The basic skills or foundation courses required of all students, such as rhetoric, physical education and, for men, military training.
2. A minimum content of general education, particularly in the humanities and social sciences, widely held to be essential in any program of college education.
3. The basic sciences, including mathematics.
4. Applied courses leading to professional attainments sufficient to permit entrance to some field of professional work or more advanced training on the graduate level. Students planning graduate study should consider the curriculum in agricultural science (pages 42-47).

The following pages present the agricultural curricula and majors in outline form suitable for use as guides or check sheets. Each student should use the appropriate curriculum page to record his progress. As each course is completed, the grade can be inserted, and it will then be possible to determine the remaining requirements. When the student reaches the junior level, the Associate Dean's office sends him a check sheet showing the work yet to be completed before graduation. The student may obtain this service at any time he and his faculty adviser find need for it.





With the exception of the curricula in agricultural science and in general agriculture, elective freedom is limited because the field of work to which each of the other curricula leads calls for specialized training of a specific character.

The general curriculum in agriculture includes a common core program for the first two years. For the junior and senior years, the student may select one of the approved departmental majors, or the vocational agriculture major; or he may continue with a broad general program by selecting the general major. This curriculum is broad and flexible, with sufficient electives and majors to meet the specific needs of different students.

The curriculum in agricultural science is suited to those students desiring a stronger foundation in science, mathematics, or engineering, and it is especially recommended for all students expecting to do graduate study or enter upon advanced technical work in an agricultural industry. A student selecting the curriculum in agricultural science should ask for assignment to a faculty adviser in his field of special interest. Ordinarily this should be done by the beginning of the sophomore year. The purposes of the curricula in dairy technology, floriculture, food technology, forestry, horticultural food crops, and restaurant management are indicated by their names. The student should refer to the University of Illinois Undergraduate Study Bulletin for course descriptions.

All students in the College of Agriculture should secure and keep for reference two printed booklets normally handed out during the first freshman registration. These booklets are (1) "University of Illinois Regulations Applying to Undergraduate Students" and (2) "Scholastic Regulations Applying to Undergraduate Students, College of Agriculture." The first of these booklets contains many items of information useful to all students in the University. The second contains information about required standards of scholarship and provisions for graduation with honors in the College of Agriculture.

#### Requirements for Graduation

Students who have satisfied the general University requirements for graduation, have maintained throughout their courses a satisfactory record of scholarship and moral character, and have completed a curriculum in the College of Agriculture, including the prescribed studies and sufficient electives, are graduated with the degree of Bachelor of Science. For the degree in horticultural food crops, 132 semester hours of credit are required for graduation, including military and excluding physical education. For the degree in food technology, the requirement for graduation is 130 hours, exclusive of physical education and the first two years of basic military. For the degree in forestry, either curriculum, the requirement for graduation is a minimum of 140 hours of credit, including eight credit hours earned in summer camp, military science, and excluding physical education. All other agriculture curricula require 126 hours, including basic military and excluding physical education. Students who transfer from other educational institutions are required to complete in residence at least half the technical agriculture credit required for the degree; they must also complete their senior year, of not less than 30 semester hours, in residence at the University.

With the exception of the University of Wisconsin, no other institution of higher learning in the United States has a department of agriculture. The University of Wisconsin is the only institution of higher learning in the United States which has a department of agriculture. The University of Wisconsin is the only institution of higher learning in the United States which has a department of agriculture.

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### Department of Agriculture

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Credit Restrictions. Any student entering the College of Agriculture for the first time after September 1, 1958, may not count work taken in physical education toward any degree in the College of Agriculture. The physical education requirement for graduation remains the same; however, grades in physical education are not included in the student's average. This restriction does not apply to courses in dance, health education, and recreation.

Students who entered the College of Agriculture prior to September 1, 1958, may count physical education credits in accordance with the rules in effect at the time of their admission.

No more than 15 credit hours in approved Institute of Aviation courses may be counted toward a degree in agriculture.

No typing or shorthand courses, not more than two hours of credit in music ensemble courses, and not more than ten hours of credit in religion may be counted toward graduation.

No credit toward graduation will be given for Math. 101 and/or 102.

Effective September, 1958, no credits will be granted on the basis of G.E.D. tests.

Not more than ten hours of credit in special problems courses may be counted toward graduation in agriculture and home economics curricula.

Grade-Average Requirements. Students who first entered the University of Illinois between October 1, 1947, and August 1, 1956, must attain a grade-point average of not less than 3.0 ("C") to qualify for the B.S. degree. All work taken, both in residence and transferred, is included in the computation of grade averages. This includes grades of "E" (failure), "ab" (absent), and "dr" (dropped). All grades including "E", "ab", or "dr" always remain in the over-all average, even though the student repeats the course. Grades of "ab" and "dr" are equivalent to "E".

Effective August 1, 1956, each candidate for graduation must have an average of not less than 3.0, including grades in courses transferred from other institutions, and he must have an average of not less than 3.0 in all courses taken at the University of Illinois. Students who transfer work after August 1, 1956, will be subject to this requirement even though they may originally have enrolled in the University of Illinois prior to August 1, 1956. When a course has been repeated, both the original and subsequent grades are included in the average. (Example: If a student has completed a course with a grade of "D" and obtains the Associate Dean's permission to repeat the course, and upon second registration receives a grade of "C", both grades will be used in computing the over-all average. Credit is, however, given only once for the same course.)



1. The first of these is the fact that the Commission has not yet received any information from the Government of the United States regarding the activities of the Committee for the Liberation of the People of the South (CLPS) in the United States. The Commission is therefore unable to determine whether the CLPS is a legitimate organization or a subversive one.

Registration in Special Problems Courses. Courses offered by the various departments under the heading or classification of Special Problems may serve one or more of the following purposes:

1. An opportunity for students to test their abilities for research and individual study.
2. A means of studying a subject-matter area or problem not covered by a formal course offering.
3. A means of making a contribution to the departmental research program in a limited manner.

The following minimum prerequisite has been adopted by the departments concerned for registration in Agricultural Economics 200, Agronomy 200, Agricultural Engineering 300, Animal Science 200, Dairy Technology 200, Horticulture 200, and Plant Pathology 300:

"Minimum grade point average, 3.5; not open to students on probation; consent of the instructor and head of the department."

A special registration form must be secured from the Associate Dean's Office for each registration in a special problem course. Exceptions to the stated prerequisite may be made in unusual cases.

### General University Requirements

Certain courses, such as rhetoric, military science (for men), and physical education, are required for all students. Unless specifically exempted, each student is expected to register for these courses each semester until he has completed the requirements in each.

Rhetoric. Satisfactory proficiency in the use of written English is a requirement for graduation. All students entering the University as freshmen directly from secondary schools are required to take a placement test in rhetoric. Those who fail the test must register in Rhetoric 100, a non-credit course. Students who receive grades of "C" or "D" in Rhetoric 102 (or its equivalent) are required to take an English qualifying examination before graduating. Those who fail to pass the qualifying examination are required to pass an extra semester course in rhetoric (Rhetoric 200).

Military and Physical Education. Students entering the University with less than sixty semester hours of credit are required to secure four semesters of credit in physical education and military (unless otherwise exempt from the military requirement). Those who enter the University with sixty or more semester hours of credit are exempt from the requirement in physical education and basic military.

The Commission is a body of experts, and its members are appointed by the President. The Commission is responsible for the study and report on the subject of the President's power.

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### Mathematics Requirement

The standard mathematics requirement for admission to the College of Agriculture is one year of high school algebra and one year of high school geometry. Because of the increasing importance of mathematics in everyday life and in most professions, including agriculture, the faculty of the College recommends that students include as much additional mathematics in their high school programs as possible.

A minimum of one course in college algebra is required for graduation in each of the following curricula, unless the student is exempted by the mathematics placement examination: Agricultural Science, General Curriculum in Agriculture (including Vocational Agriculture), Dairy Technology, Food Technology, Horticultural Food Crops, and Forestry.

To insure that entering students will be placed in the appropriate college mathematics course, we are now offering a mathematics placement examination. This examination is to be taken by all students entering the College of Agriculture after September 1, 1957, in any of the above-listed curricula. It is not a proficiency examination. No credit toward graduation will be given to students who pass it. Those who make a sufficiently high grade will be exempt from the algebra requirement and, if they wish or if their curriculum requires it, they may begin college mathematics with a more advanced course, such as trigonometry or analytical geometry.

The examination is one hour in length, covering the usual topics of the first course in college algebra. It is given at regularly scheduled times during the late spring and early summer and during the registration periods in September and February. Entering students are notified of the time and place when they apply for admission and receive their permits to enter.

The mathematics placement test should not be confused with entrance examinations. Entrance examinations are offered several times each year and are taken by applicants who need to remove deficiencies in specific subjects for admission.

#### Exceptions

Students who enter with acceptable equivalent college credit in algebra are exempt from the mathematics placement examination.

Students entering the following curricula are not required to take the mathematics placement examination: Floriculture, Home Economics, and Restaurant Management.

A student who is admitted with a deficiency in high school mathematics will not take the placement examination until after he has made up his deficiency. The minimum prerequisite for Math. 111, 112, and 104 is one year of high school algebra and one year of high school geometry. At the present time Math. 101 may be taken without credit to remove a deficiency in high school algebra, and Math. 102 may be taken without credit to remove a deficiency in high school geometry. A student with deficiencies must consult with the Assistant or Associate Dean concerning the appropriate course and procedure for removing his deficiency.

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A number of new books in this series are now being published. The first of these is "The History of the United States" by John P. Kennedy, published by the University of Chicago Press. This book is a comprehensive history of the United States, covering the period from the first settlement to the present. It is written in a clear and concise style, and is suitable for both students and general readers. The second book in the series is "The History of the United States" by John P. Kennedy, published by the University of Chicago Press. This book is a comprehensive history of the United States, covering the period from the first settlement to the present. It is written in a clear and concise style, and is suitable for both students and general readers.

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1. The first step in the process of identifying a problem is to determine the nature of the problem. This involves a thorough understanding of the situation and the factors that are contributing to the problem. Once the nature of the problem is understood, the next step is to identify the causes of the problem. This involves a detailed analysis of the situation and the factors that are contributing to the problem. Once the causes of the problem are identified, the next step is to develop a plan of action. This involves determining the steps that need to be taken to solve the problem and the resources that will be required to implement the plan. Once a plan of action has been developed, the next step is to implement the plan. This involves carrying out the steps that have been identified in the plan of action. Finally, the last step in the process is to evaluate the results of the plan. This involves determining whether the plan has been successful in solving the problem and whether any further action is required.

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## GENERAL CURRICULUM IN AGRICULTURE

This is a general curriculum in the sense that it provides for a common core program for the first two years. For the junior and senior years, the student may select one of the approved departmental majors or he may continue with a broad general program by selecting the general major. All students in agriculture pursue the same general core program for the first two years except those in Agricultural Science, Dairy Technology, Floriculture, Food Technology, Forestry, Home Economics, Horticultural Food Crops, and Restaurant Management.

Freshmen may enter this general curriculum without specifying a major. Transfer students entering this curriculum with 45 or more credit hours should indicate their proposed major on the Application for Admission blank. Each student must make his choice of major not later than the beginning of the junior year and notify the College office of his choice.

The purposes, objectives, and requirements of the various majors and options are outlined on the following pages.

The core program for the first two years includes all general University requirements as well as a broad foundation in basic sciences essential to a fuller understanding of agriculture. In addition, the student has considerable freedom of choice of introductory courses in agriculture. By proper choice of Group I courses, in line with the student's ultimate objective and major, the student is ready to proceed with more advanced courses in his junior and senior years. Agriculture 100, required of all freshmen in agriculture, is designed to assist the student in clarifying his objectives.

Upon completion of all requirements of this curriculum, with an approved major and a minimum of 126 semester hours of credit, the student is awarded the degree of Bachelor of Science in Agriculture.

Transfers should note that no credit is allowed for certain courses, such as Agricultural Economics 100 and Horticulture 100 for students with 60 or more credit hours. Agricultural Economics 220 or 230 may be substituted for Agricultural Economics 100, and Horticulture 242 or 262 may be substituted for Horticulture 100 and may be counted toward the fifteen hours required in Group I, provided the course taken as a substitute is not needed to fulfill some other agriculture group requirement in the major or option.

Each student is encouraged to study the requirements of the various majors and options and to select the one which best fits his objectives prior to the beginning of his junior year. An appropriate adviser will then be assigned him in planning his program for the junior and senior years.

Recommended or suggested electives are listed with each major. They are listed as a guide. Other courses than those shown may be taken as electives if more appropriate for the student's objective.

A general major is provided for those whose objectives do not properly fall within one of the approved departmental majors. Those who are preparing to teach vocational agriculture in high school must complete the general curriculum with a major in vocational agriculture.



THE SECRETARY OF THE ARMY, WASHINGTON, D. C., MAY 1, 1945.  
TO THE SECRETARY OF THE ARMY, WASHINGTON, D. C., MAY 1, 1945.  
FROM THE SECRETARY OF THE ARMY, WASHINGTON, D. C., MAY 1, 1945.  
SUBJECT: [Illegible]

1. [Illegible]

2. [Illegible]

3. [Illegible]

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8. [Illegible]

## For the degree of Bachelor of Science in Agriculture

Sample Program for First Two Years

<u>First Year</u>			
<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Bot. 100--General Botany	4	Chem. 101, 102, or 111--Gen. Chem. <sup>4/</sup>	3-5
Rhet. 101--Rhet. & Comp. <sup>1/</sup>	3	Rhet. 102--Rhet. & Comp. <sup>1/</sup>	3
Agr. 100--Lectures for Freshmen <sup>3/</sup>	0	Math. 111, 112, or 104--Alg. or Alg. and Trig. <sup>2/</sup>	
Agr. courses from Group I or Math. 111, or 112, or 104--Alg. or Alg. and Trig. <sup>2/</sup>	3-5	or Agr. course from Group I	3-5
Agr. course from Group I	3	Zool. 104--Elementary Zoology	4
Military (men)	1	Military (men)	1
Physical Education	(1)	Physical Education	(1)
Total	15-17	Total	15-17
<u>Second Year</u>			
Chem. 132 or 133--Organic Chem. <sup>4/</sup>	3-5	Econ. 108--Elem. of Econ.	3
Geology 105--Agr. Geology	3	Speech 101--Prin. of Eff. Speaking <sup>1/</sup>	3
Two Agr. courses from Group I	6-7	Agr. course from Group I	3
Military (men)	1	Electives	6
Physical Education	(1)	Military (men)	1
Total	15-17	Physical Education	(1)
		Total	17

Group I - Agriculture prescribed. Agriculture 100 and a minimum of 15 hours from other courses listed below must be selected and should be completed during the first two years:

	<u>Hours</u>
Agr. 100--Lectures for Freshmen in Agriculture <sup>3/</sup>	0
Agr. Econ. 100--Introductory Agricultural Economics	3
Agr. Eng. 100--Engineering Applications in Agriculture	3
Agronomy 121--Crop Production	4
An. Sci. 100--Introduction to Animal Science	3
An. Sci. 102 or Da. Sci. 102--Feeds and Feeding	3
Da. Sci. 100--Introduction to Dairy Production	3
Forestry 100--Farm Forestry	3
Genetics (Agron. 110, An. Sci. 110, Da. Sci. 110, or Hort. 110)--Plant and Animal Genetics	3
Hort. 100--Introductory Horticulture	3

Junior and Senior Years

For junior and senior years, see approved majors. The general requirements in addition to the courses listed for the first two years include (1) completion of all prescribed courses listed for the major, (2) completion of at least 50 hours of agriculture courses, including prescribed and elective, (3) completion of at least twelve hours of humanities and social studies (including those specifically prescribed in the student's major) and (4) completion of sufficient open electives to bring total hours to 126.





HUMANITIES AND SOCIAL SCIENCES - A minimum of 12 hours from anthropology, art, economics, finance, foreign language, geography, history, landscape architecture, literature, music, philosophy, political science, psychology, religion, sociology, or speech. These courses will normally be taken during the junior-senior years.

- 1/ D. G. S. 111 and 112, Verbal Communications, both four-hour courses, may be substituted for Rhetoric 101, 102, and Speech 101.
- 2/ A student in this curriculum is required to complete either Mathematics 111, Algebra, 5 hours; or Mathematics 112, College Algebra, 3 hours; or Mathematics 104, Elements of Algebra and Trigonometry, 3 hours; or pass the placement examination in mathematics. (Mathematics 104 does not serve as a prerequisite for more advanced courses in mathematics and should not be taken by those who plan to take Mathematics 114, 122, or 123, or by those who plan to major in agricultural economics general option.) A student who passes the placement examination will not be required to take Mathematics 111, 112, or 104, but if he wishes he may take a more advanced course in mathematics. Student who enter the general curriculum with acceptable equivalent college credit in algebra are not required to take the placement examination or additional mathematics. See page 9 for additional details.
- 3/ A non-credit orientation course required of all freshmen in agriculture.
- 4/ One course in organic chemistry is required. For students preparing for graduate training in animal, plant, or soil science, Chemistry 101 or 102 and Chemistry 105 and 133 are recommended. Advisers may recommend this chemistry sequence for other students where appropriate to their aims and objectives in place of Chemistry 111 and Chemistry 132. Chemistry 111 and Chemistry 132 are terminal courses and satisfy the minimum chemistry requirements for graduation. Chemistry 105 is a prerequisite for Chemistry 133. Chemistry 132 is not a satisfactory prerequisite for Chemistry 350, 354, and 355, Biochemistry.

RESEARCH AND DEVELOPMENT - A program of 10 years from 1960 to 1969, with a total of \$100 million in appropriations. The program is divided into three main areas: (1) Basic research, (2) Applied research, and (3) Development. The program is designed to provide a continuous flow of research and development work, with a focus on the most advanced and promising areas of science and technology. The program is also designed to provide a high level of support for the most talented and capable researchers and engineers in the field.

1969

1. The first of the three main areas of research and development is basic research. This is the most fundamental and most important area of research, and it is the foundation upon which all other research and development is built. Basic research is designed to provide a deep understanding of the fundamental principles of science and technology, and it is the most difficult and most expensive area of research.

2. The second of the three main areas of research and development is applied research. This is the area of research that is most directly related to the needs of the nation, and it is the area of research that is most likely to lead to the development of new and improved technologies. Applied research is designed to provide a deep understanding of the practical applications of the fundamental principles of science and technology, and it is the most difficult and most expensive area of research.

3. The third of the three main areas of research and development is development. This is the area of research that is most directly related to the needs of the nation, and it is the area of research that is most likely to lead to the development of new and improved technologies. Development is designed to provide a deep understanding of the practical applications of the fundamental principles of science and technology, and it is the most difficult and most expensive area of research.

4. The fourth of the three main areas of research and development is development. This is the area of research that is most directly related to the needs of the nation, and it is the area of research that is most likely to lead to the development of new and improved technologies. Development is designed to provide a deep understanding of the practical applications of the fundamental principles of science and technology, and it is the most difficult and most expensive area of research.

SUMMARY OF HOURS PRESCRIBED AND ELECTIVE  
FOR THE DEPARTMENTAL MAJORS

	1	2	3	4	5	6	7	8
	<u>Core program</u>		<u>Addi- tional</u>		<u>Humani- ties and Social Sciences</u>	<u>Addi- tional</u>	<u>Open</u>	
<u>Major</u>	<u>Agr. Pre- scribed</u>	<u>Non-Agr. Pre- scribed</u>	<u>Agr. Pre- scribed</u>	<u>Agr. Elec- tives</u>		<u>Non-Agr. Pre- scribed</u>	<u>Elec- tives</u>	<u>Total</u>
Agr. Econ.	15-16	33-42	17-20	18-14	12	5	26-17	126
Farm Mgmt. Option	15-16	33-42	22-28	13-6	12	-	31-22	126
Mktg. Option	15-16	33-42	17-20	18-14	12	6	25-16	126
Rur. Soc. Option	15-16	33-42	17-20	18-14	12	-	31-22	126
Agr. Mechan.	15-16	33-42	23-26	12-8	12	15	16-7	126
Agron.	15-16	33-42	25-32	10-2	12	-	31-22	126
An. Sci.	15-16	33-42	23-34	12-0	12	6	25-16	126
Da. Sci.	15-16	33-42	23-32	12-2	12	6	25-16	126
Hort.	15-16	33-42	26-32	9-2	12	5	26-17	126
Voc. Agr.	15-16	33-42	21-27	14-7	12	19	12-3	126
Gen Agr.	15-16	33-42	23	12-11	12	-	31-22	126

Col. 1. Range depends upon the courses selected from Group 1.

Col. 2. Range depends upon selection of chemistry and mathematics courses.

Col. 3. Range depends upon additional Group 1 courses required for major.

Col. 4. Range depends upon hours of agriculture required to total 50.

Col. 7. Range depends upon additional hours required to equal 126.

The hours prescribed by various groups will vary somewhat from these figures, depending upon the exact number of hours transferred and accepted in substitution for prescribed courses.





MAJOR IN AGRICULTURAL ECONOMICS--FARM MANAGEMENT OPTION

This option is designed particularly for persons interested in farming or in managing agricultural properties for others. It is also appropriate for men interested in agricultural positions with banks, credit agencies, and other agricultural institutions.

For core requirements see page 11. Other courses required for this option are:

<u>Prescribed Courses in Agriculture</u>	<u>Semester</u>	<u>Hours</u>
Agr. Economics 100 <sup>1</sup> --Intro. Agricultural Economics (I,II)		3
An. Sci. or Da. Sci. 102--Feeds and Feeding (I,II)		3
Agronomy 201--Soils (I,II)		5
Agr. Economics 220--Farm Management (I,II)		3
Agr. Economics 324--Farm Operation (II)		3
Agr. Economics 325--Advanced Farm Management (I)		3
Additional Agricultural Economics		8

Elective courses in Agriculture to bring total Agriculture to a minimum of fifty hours

Humanities and Social Sciences (see page 12 for definition) 12

Must include:

Economics 109--Principles of Economics I, II 3

Open Electives to Bring Total Hours to: 126

Suggested Agriculture Electives

Agricultural Economics 230, 302, 303, 305, 312, 341, 342

Agricultural Engineering 252, 272

Agronomy 301, 306

Animal or Dairy Science (one or more courses)

Entomology 101

Rural Sociology 117 (students with credit in Soc. 100 may wish to substitute Rural Soc. 277, 317, or 377)

Suggested Non-Agriculture Electives

Accountancy 201

Economics 170

Geography 105

History 152

Mathematics 114

Philosophy 101, 102

Political Science 150

Psychology 100, 255

Rhetoric 151

<sup>1</sup>/ Juniors or seniors should substitute Agr. Econ. 230.

# 1. Project Title: [Project Title]

This report is a summary of the findings of the project. It is intended to provide a general overview of the project and its results. It is not intended to provide a detailed description of the project or its results. It is intended to provide a general overview of the project and its results.

The project was conducted by [Project Name] and was completed on [Date]. The project was funded by [Funding Source].

The project was conducted by [Project Name] and was completed on [Date]. The project was funded by [Funding Source].

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The project was conducted by [Project Name] and was completed on [Date]. The project was funded by [Funding Source].

The project was conducted by [Project Name] and was completed on [Date]. The project was funded by [Funding Source].



General Curriculum with Major in AGRICULTURAL ECONOMICS  
Farm Management Option  
(for degree of B.S. in Agriculture)

15.

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_

DATE \_\_\_\_\_

AGRICULTURE PRESCRIBED:	HOURS	GRADE	8 HOURS OF AGR. ECON. ELECTIVES (Total Agr. Econ. must equal 20 hours)	
Agr. 100	0			
Agr. Econ. 100	3			
Agr. Econ. 220	3			
Agr. Econ. 324	3			
Agr. Econ. 325	3			
Agron. 201	5			
An. Sci. 102 or Da. Sci. 102	3		AGRICULTURE ELECTIVES--Total Agr. prescribed and electives must equal at least 50 hours.	At least 25 hours of Agr. must be com- pleted in residence.
9 HOURS FROM:				Transfer:
Agr. Eng. 100	3			Residence:
Agron. 121	4			Earned:
An. Sci. 100	3			
Da. Sci. 100	3			
Forestry 100	3			
Hort. 100	3			
Agron. 110, An. Sci. 110, Da. Sci. 110, or Hort. 110	3			To be earned:
NON-AGRICULTURE PRESCRIBED:				
Botany 100	4			
Chem. 101, 102, or 111	3-5			
Chem. 132 or 133	3-5			
Econ. 108	3		HUMANITIES AND SOCIAL SCIENCES--12 hours from anthro., art, econ, fin., for. lang., geog., hist., land. arch., lit., music, phil., pol. sci., psych., religion, soc., and speech.	
Geology 105	3		MUST INCLUDE:	Earned:
Math. Placement Test or Math. 111, 112, or 104	3-5		Econ. 109	To be earned:
Rhetoric 101	3			
Rhetoric 102	3			
Speech 101	3		OPEN ELECTIVES:	
Zoology 104	4			TOTAL HOURS
Mil.-Mil.	1-1			
Mil.-Mil.	1-1			
P.E.-P.E.	(1-1)			
P.E.-P.E.	(1-1)			

126 hours, including military and excluding P.E., are required for the degree as out-  
lined above. Minimum average of 3.0 is required for graduation. Effective August 1,  
1956, students who transfer credits must have a minimum average of 3.0 in all courses  
taken at U. of I. and a combined average of 3.0 for transfer and U. of I. work.





## MAJOR IN AGRICULTURAL ECONOMICS--AGRICULTURAL MARKETING OPTION

Students interested in marketing farm products and farm supplies may major under this option. Numerous opportunities exist for agricultural college graduates in salesmanship, in price analysis, and in the management and operational phases of agricultural and related businesses.

For common core requirements see page 11. Other courses required for this option are:

<u>Prescribed Courses in Agriculture</u>	<u>Semester</u>	<u>Hours</u>
Agr. Economics 100 <sup>1/</sup> --Introd. Agricultural Economics (I,II)		3
Agr. Economics 230--Marketing of Agricultural Products (I,II)		3
Six hours from the following:		
Agr. Economics 331--Grain Marketing (I)		3
Agr. Economics 332--Livestock Marketing (II)		3
Agr. Economics 333--Marketing Horticultural Products (I)		3
Agr. Economics 334--Marketing Dairy Products (II)		3
Additional Agricultural Economics		8
Elective courses in Agriculture to bring total Agriculture to a minimum of fifty hours		
<u>Humanities and Social Sciences</u> (see page 12 for definition)		12
Must include:		
Economics 109--Principles of Economics (I,II)		3
Economics 170--Elements of Statistics (I,II)		3
Economics 313--Economics of Consumption (II)		3
<u>Non-Agriculture Prescribed</u>		
Accountancy 201--Fundamentals of Accounting (I,II)		3
Rhetoric 151--Business Letter Writing (I,II)		3
<u>Open Electives to Bring Total Hours to:</u>		126
<u>Suggested Agriculture Electives</u>		
Agricultural Economics 220, 305, 341, 342		
Agronomy 306, 321		
Animal Science or Dairy Science (one or more courses)		
Food Technology 260 or Animal Science 104		
Horticulture 242 or 262		
Rural Sociology 117 <sup>2/</sup> or 297		
<u>Suggested Non-Agriculture Electives</u>		
Geography 105		
Marketing 211		

<sup>1/</sup> Juniors and seniors should substitute Agr. Econ. 220 for Agr. Econ. 100.

<sup>2/</sup> Students with credit in Soc. 100 may take Rural Soc. 277, 317, or 377 instead of Rural Soc. 117.





General Curriculum with Major in AGRICULTURAL ECONOMICS  
Agricultural Marketing Option  
(for degree of B.S. in Agriculture)

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_  
DATE \_\_\_\_\_

AGRICULTURE PRESCRIBED:	HOURS	GRADE	6 HOURS FROM: Agr. Econ. 331; 332; 333; 334			
Agr. 100	0					
Agr. Econ. 100	3					
Agr. Econ. 230	3					
12 HOURS FROM:			8 HOURS OF AGR. ECON. ELECTIVES (Total Agr.Econ.must equal 20 hours.)			
Agr. Eng. 100	3					At least 25 hours of Agr. must be com- pleted in residence.
Agron. 121	4					
An. Sci. 100	3					
An. Sci. 102 or Da. Sci. 102	3					Transfer:  Residence:  Earned:  To be earned:
Da. Sci. 100	3		AGRICULTURE ELECTIVES--Total Agr. prescribed and electives must equal at least 50 hours.			
Forestry 100	3					
Hort. 100	3					
Agron. 110, An. Sci. 110, Da. Sci. 110, or Hort. 110	3					
NON-AGRICULTURE PRESCRIBED:						
Accy. 201	3					
Botany 100	4					
Chem. 101, 102, or 111	3-5					
Chem. 132 or 133	3-5					
Econ. 108	3		HUMANITIES AND SOCIAL SCIENCES--12 hours from: anthro., art, econ., finance, for. lang, geog, hist, land.arch, lit., music, phil., pol. sci., psych., religion, soc., and speech.			
Geology 105	3		MUST INCLUDE:			Earned:
Math. Placement Test or Math 111, 112, or 104	3-5		Econ. 109	3		To be earned:
Rhetoric 101	3		Econ. 170	3		
Rhetoric 102	3		Econ. 313	3		
Rhet. 151	3		OPEN ELECTIVES:			
Speech 101	3					TOTAL HOURS
Zoology 104	4					
Mil.-Mil.	1-1					
Mil.-Mil.	1-1					
P.E.-P.E.	(1-1)					
P.E.-P.E.	(1-1)					

126 hours, including military and excluding P.E., are required for the degree as outlined above. Minimum average of 3.0 is required for graduation. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at U. of I. and a combined average of 3.0 for transfer and U. of I. work.

1. *Phragmites australis* (Cav.) Trin. ex Steud.



## MAJOR IN AGRICULTURAL ECONOMICS--GENERAL OPTION

This option is designed for students who desire training in agricultural economics without specializing in any particular subject-matter area. It is also appropriate as preparation for analytical and statistical work with agricultural businesses or public agencies.

For core requirements see page 11. Other courses required for this option are:

<u>Prescribed courses in Agriculture</u>	<u>Semester</u>	<u>Hours</u>
Agr. Economics 100 <sup>1/</sup> --Introductory Agricultural Economics (I,II)		3
Nine hours from the following:		
Rural Soc. 117--Introduction to Rural Sociology (I,II)		3
Agr. Economics 218--Land Economics (II)		3
Agr. Economics 220--Farm Management (I,II)		3
Agr. Economics 230--Marketing of Agricultural Products (I,II)		3
Agr. Economics 302--Financing Agriculture (II)		3
Agr. Economics 303--Agricultural Law (I,II)		3
Agr. Economics 305--Agricultural Development and Policies (I)		3
Agr. Economics 341--Agricultural Statistics (I)		3
Additional Agricultural Economics		8
Elective courses in Agr. to bring total Agr. to a minimum of 50 hours		
<u>Humanities and Social Sciences</u> (see page 12 for definition)		12
Must include:		
Economics 109--Principles of Economics (I, II)		3
Pol. Sci. 150--American Government: Organization and Powers (I, II)		3
One of the following:		
Philos. 101--Introduction to Philosophy (I, II)		3
Philos. 102--Logic (I, II)		3
Philos. 104--Philosophy of Democracy (II)		4
<u>Non-Agriculture Prescribed</u>		
Accy. 201--Fundamentals of Accounting (I, II)		3
Math. 114 <sup>2/</sup> --Plane Trigonometry (I, II)		2
<u>Open Electives to Bring Total Hours to:</u>		126

Suggested Agriculture Electives

Agricultural Economics 312, 324, 325, 342  
 Agricultural Economics--one or more commodity marketing courses  
 Agricultural Engineering 131  
 Agriculture 114  
 Agronomy 201, 306  
 Animal Science or Dairy Science (one or more courses)  
 Rural Sociology 277

Suggested Non-Agriculture Electives

Economics 214  
 Psychology 100  
 Rhetoric 151  
 Speech 113

<sup>1/</sup> Juniors and seniors should substitute Agr. Econ. 220 or 230.

<sup>2/</sup> Students in this option who do not pass the Mathematics Placement Test should take Math. 111 or 112, but not 104.

THE FUNDAMENTAL PRINCIPLES OF MATHEMATICS

The following principles are the basis of the theory of sets. They are the axioms of set theory, and they are the foundation of all mathematics.

The first principle is the principle of extensionality. It states that two sets are equal if and only if they have the same elements.

- THE FUNDAMENTAL PRINCIPLES OF MATHEMATICS
- (I) Extensionality: Two sets are equal if and only if they have the same elements.
  - (II) Pairing: For any two objects  $a$  and  $b$ , there exists a set containing exactly  $a$  and  $b$ .
  - (III) Union: For any two sets  $A$  and  $B$ , there exists a set containing all the elements of  $A$  and  $B$ .
  - (IV) Intersection: For any two sets  $A$  and  $B$ , there exists a set containing all the elements of  $A$  and  $B$  that are also elements of each other.
  - (V) Power Set: For any set  $A$ , there exists a set containing all the subsets of  $A$ .
  - (VI) Replacement: If  $A$  is a set and  $f$  is a function, then the image of  $A$  under  $f$  is a set.
  - (VII) Separation: If  $A$  is a set and  $P$  is a property, then the subset of  $A$  consisting of all elements  $x$  such that  $P(x)$  is a set.
  - (VIII) Infinity: There exists an infinite set.
  - (IX) Choice: If  $\{A_i\}_{i \in I}$  is a family of non-empty sets, then there exists a function  $f$  such that  $f(i) \in A_i$  for all  $i \in I$ .

- THE FUNDAMENTAL PRINCIPLES OF MATHEMATICS
- (X) Foundation: Every non-empty set has a unique element that is not a member of it.
  - (XI) Replacement: If  $A$  is a set and  $f$  is a function, then the image of  $A$  under  $f$  is a set.
  - (XII) Separation: If  $A$  is a set and  $P$  is a property, then the subset of  $A$  consisting of all elements  $x$  such that  $P(x)$  is a set.
  - (XIII) Infinity: There exists an infinite set.
  - (XIV) Choice: If  $\{A_i\}_{i \in I}$  is a family of non-empty sets, then there exists a function  $f$  such that  $f(i) \in A_i$  for all  $i \in I$ .

- THE FUNDAMENTAL PRINCIPLES OF MATHEMATICS
- (XV) Replacement: If  $A$  is a set and  $f$  is a function, then the image of  $A$  under  $f$  is a set.
  - (XVI) Separation: If  $A$  is a set and  $P$  is a property, then the subset of  $A$  consisting of all elements  $x$  such that  $P(x)$  is a set.
  - (XVII) Infinity: There exists an infinite set.
  - (XVIII) Choice: If  $\{A_i\}_{i \in I}$  is a family of non-empty sets, then there exists a function  $f$  such that  $f(i) \in A_i$  for all  $i \in I$ .

- THE FUNDAMENTAL PRINCIPLES OF MATHEMATICS
- (XIX) Replacement: If  $A$  is a set and  $f$  is a function, then the image of  $A$  under  $f$  is a set.
  - (XX) Separation: If  $A$  is a set and  $P$  is a property, then the subset of  $A$  consisting of all elements  $x$  such that  $P(x)$  is a set.
  - (XXI) Infinity: There exists an infinite set.
  - (XXII) Choice: If  $\{A_i\}_{i \in I}$  is a family of non-empty sets, then there exists a function  $f$  such that  $f(i) \in A_i$  for all  $i \in I$ .

- THE FUNDAMENTAL PRINCIPLES OF MATHEMATICS
- (XXIII) Replacement: If  $A$  is a set and  $f$  is a function, then the image of  $A$  under  $f$  is a set.
  - (XXIV) Separation: If  $A$  is a set and  $P$  is a property, then the subset of  $A$  consisting of all elements  $x$  such that  $P(x)$  is a set.
  - (XXV) Infinity: There exists an infinite set.
  - (XXVI) Choice: If  $\{A_i\}_{i \in I}$  is a family of non-empty sets, then there exists a function  $f$  such that  $f(i) \in A_i$  for all  $i \in I$ .

- THE FUNDAMENTAL PRINCIPLES OF MATHEMATICS
- (XXVII) Replacement: If  $A$  is a set and  $f$  is a function, then the image of  $A$  under  $f$  is a set.
  - (XXVIII) Separation: If  $A$  is a set and  $P$  is a property, then the subset of  $A$  consisting of all elements  $x$  such that  $P(x)$  is a set.
  - (XXIX) Infinity: There exists an infinite set.
  - (XXX) Choice: If  $\{A_i\}_{i \in I}$  is a family of non-empty sets, then there exists a function  $f$  such that  $f(i) \in A_i$  for all  $i \in I$ .



General Curriculum with Major in AGRICULTURAL ECONOMICS  
General Option  
(for degree of B.S. in Agriculture)

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_

DATE \_\_\_\_\_

AGRICULTURE PRESCRIBED:	HOURS	GRADE	9 HOURS FROM: Rural Soc. 117, Agr. Econ. 218, 220, 230, 302, 303, 305, 341.			
Agr. 100	0					
Agr. Econ. 100	3					
12 HOURS FROM:						
Agr. Eng. 100	3					
Agron. 121	4					
An. Sci. 100	3		8 HOURS OF AGR. ECON. ELECTIVES			At least 25 hours of Agr must be completed in residence.
An. Sci. 102 or Da. Sci. 102	3		(Total Agr. Econ. must equal 20 hrs.)			
Da. Sci. 100	3					
Forestry 100	3					
Hort. 100	3					
Agron. 110, An. Sci. 110, Da. Sci. 110, or Hort. 110	3		AGRICULTURE ELECTIVES--Total Agr. prescribed and electives must equal at least 50 hours.			Transfer:
						Residence:
NON-AGRICULTURE PRESCRIBED:						Earned:
Accy. 201	3					To be earned:
Botany 100	4					
Chem. 101, 102, or 111	3-5					
Chem. 132 or 133	3-5		HUMANITIES AND SOCIAL SCIENCES--12 hours from anthro, art, econ, fin, for. lang, geog., hist., land. arch., lit., music, phil., pol. sci., psych., religion, soc., and speech.			
Econ. 108	3		MUST INCLUDE:			Earned:
Geology 105	3		Econ. 109	3		
Math. Placement Test or Math. 111 or 112	3-5		Pol. Sci. 150	3		
Math. 114	2		Philos. 101, 102, or 104	3-4		To be earned:
Rhetoric 101	3					
Rhetoric 102	3					
			OPEN ELECTIVES:			
Speech 101	3					TOTAL HOURS
Zoology 104	4					
Mil.-Mil.	1-1					
Mil.-Mil.	1-1					
P.E.-P.E.	(1-1)					
P.E.-P.E.	(1-1)					

126 hours, including military and excluding P.E., are required for the degree as outlined above. Minimum average of 3.0 is required for graduation. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at U. of I. and a combined average of 3.0 for transfer and U. of I. work.



**UNITED STATES DEPARTMENT OF AGRICULTURE**  
**WATER RESOURCES DIVISION**  
**WATER RESOURCES RESEARCH CENTER**  
**WASHINGTON, D. C. 20250**

Project Name		Project Number		Project Status	
Project 1		101		Active	
Project 2		102		Active	
Project 3		103		Active	
Project 4		104		Active	
Project 5		105		Active	
Project 6		106		Active	
Project 7		107		Active	
Project 8		108		Active	
Project 9		109		Active	
Project 10		110		Active	
Project 11		111		Active	
Project 12		112		Active	
Project 13		113		Active	
Project 14		114		Active	
Project 15		115		Active	
Project 16		116		Active	
Project 17		117		Active	
Project 18		118		Active	
Project 19		119		Active	
Project 20		120		Active	
Project 21		121		Active	
Project 22		122		Active	
Project 23		123		Active	
Project 24		124		Active	
Project 25		125		Active	
Project 26		126		Active	
Project 27		127		Active	
Project 28		128		Active	
Project 29		129		Active	
Project 30		130		Active	
Project 31		131		Active	
Project 32		132		Active	
Project 33		133		Active	
Project 34		134		Active	
Project 35		135		Active	
Project 36		136		Active	
Project 37		137		Active	
Project 38		138		Active	
Project 39		139		Active	
Project 40		140		Active	
Project 41		141		Active	
Project 42		142		Active	
Project 43		143		Active	
Project 44		144		Active	
Project 45		145		Active	
Project 46		146		Active	
Project 47		147		Active	
Project 48		148		Active	
Project 49		149		Active	
Project 50		150		Active	
Project 51		151		Active	
Project 52		152		Active	
Project 53		153		Active	
Project 54		154		Active	
Project 55		155		Active	
Project 56		156		Active	
Project 57		157		Active	
Project 58		158		Active	
Project 59		159		Active	
Project 60		160		Active	
Project 61		161		Active	
Project 62		162		Active	
Project 63		163		Active	
Project 64		164		Active	
Project 65		165		Active	
Project 66		166		Active	
Project 67		167		Active	
Project 68		168		Active	
Project 69		169		Active	
Project 70		170		Active	
Project 71		171		Active	
Project 72		172		Active	
Project 73		173		Active	
Project 74		174		Active	
Project 75		175		Active	
Project 76		176		Active	
Project 77		177		Active	
Project 78		178		Active	
Project 79		179		Active	
Project 80		180		Active	
Project 81		181		Active	
Project 82		182		Active	
Project 83		183		Active	
Project 84		184		Active	
Project 85		185		Active	
Project 86		186		Active	
Project 87		187		Active	
Project 88		188		Active	
Project 89		189		Active	
Project 90		190		Active	
Project 91		191		Active	
Project 92		192		Active	
Project 93		193		Active	
Project 94		194		Active	
Project 95		195		Active	
Project 96		196		Active	
Project 97		197		Active	
Project 98		198		Active	
Project 99		199		Active	
Project 100		200		Active	

This document contains information that is not to be released to the public without the approval of the Director of the Water Resources Division. The information contained herein is for internal use only and is not to be distributed outside the agency.

## MAJOR IN AGRICULTURAL ECONOMICS--RURAL SOCIOLOGY OPTION

The rural sociology option is designed primarily to prepare students for effective rural group leadership in a variety of organizations and agencies serving agriculture and rural communities.

For core requirements see page 11. Other courses required for this option are:

<u>Prescribed Courses in Agriculture</u>	<u>Semester</u>	<u>Hours</u>
Agr. Econ. 100 <sup>1/</sup> -Introductory Agricultural Economics (I, II)		3
Rural Soc. 117 <sup>2/</sup> -Intro. to Rural Sociology (I, II)		3
Rural Soc. 277--Rural Social Problems (II)		3
Rural Soc. 297--Farmer Movements, Farmers' Organizations and Social Policy (I)		3
Additional Rural Sociology or Agricultural Economics		8

Elective courses in Agriculture to bring total Agriculture to a minimum of fifty hours.

Humanities and Social Sciences (see page 12 for definition) 12

Must include:

Economics 109--Principles of Economics (I, II)	3
Soc. 222--Theory and Analysis of Formal Organization (I, II)	3
Soc. 281--Contemporary Sociology (I,II)	3

Open Electives to Bring Total Hours to: 126

Suggested Agriculture Electives

Agricultural Economics 218, 220, 230, 273, 303, 305, 312, 341, 342  
 Agriculture 114  
 Agronomy 321  
 Animal Science or Dairy Science (one or more courses)

Suggested Non-Agriculture Electives

Anthropology 103  
 Economics 214, 300, 336  
 Education 315  
 Geography 104  
 Philosophy 101  
 Pol. Sci. 150  
 Psychology 100, 255  
 Sociology 212, 220, 270  
 Speech 113

<sup>1/</sup> Juniors and seniors should substitute Agr. Econ. 220 or 230.

<sup>2/</sup> Students with credit in Sociol. 100 should substitute Rural Sociol. 317 or 377.





General Curriculum with Major in AGRICULTURAL ECONOMICS  
Rural Sociology Option  
(for degree of B.S. in Agriculture)

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_

DATE \_\_\_\_\_

AGRICULTURE PRESCRIBED:	HOURS	GRADE	8 HOURS OF RUR. SOC. OR AGR. ECON. ELECTIVES (Total Agr. Econ. must equal 20 hours)		
Agr. 100	0				
Agr. Econ. 100	3				
Rur. Soc. 117	3				
Rur. Soc. 277	3				
Rur. Soc. 297	3				
12 HOURS FROM:			AGRICULTURE ELECTIVES--Total Agr. prescribed and electives must equal at least 50 hours		At least 25 hours of Agr. must be com- pleted in residence.
Agr. Eng. 100	3				
Agron. 121	4				
An. Sci. 100	3				
An. Sci. 102 or Da. Sci. 102	3				Transfer:
Da. Sci. 100	3				Residence:
Forestry 100	3				
Hort. 100	3				
Agron. 110, An. Sci. 110, Da. Sci. 110, or Hort. 110	3				Earned:
NON-AGRICULTURE PRESCRIBED:					To be earned:
Botany 100	4				
Chem. 101, 102, or 111	3-5				
Chem. 132 or 133	3-5		HUMANITIES AND SOCIAL SCIENCES--12 hours from: anthro., art, econ., fin., for. lang., geog., hist., land. arch., lit., music, phil., pol. sci., psych., religion, soc., and speech.		
Econ. 108	3		MUST INCLUDE:		
Geology 105	3		Econ. 109	3	Earned:
Math. Placement Test or Math. 111, 112, or 104	3-5		Soc. 222	3	To be earned:
			Soc. 281	3	
Rhetoric 101	3				
Rhetoric 102	3				
			OPEN ELECTIVES		
Speech 101	3				TOTAL HOURS
Zoology 104	4				
Mil.-Mil.	1-1				
Mil.-Mil.	1-1				
P.E.-P.E.	(1-1)				
P.E.-P.E.	(1-1)				

126 hours, including military and excluding P.E., are required for the degree as outlined above. Minimum average of 3.0 is required for graduation. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at U. of I. and a combined average of 3.0 for transfer and U. of I. work.





## MAJOR IN AGRICULTURAL MECHANIZATION

For students who are interested in non-technical emphasis in the areas of farm structures, conservation, farm power and farm machinery, in preparation for work with service organizations, retail dealers, power suppliers, contractors, farm management companies, or as farm operators. This major is administered in the College of Agriculture by the Department of Agricultural Engineering. Students interested in a program leading to a degree in Agricultural Engineering should follow the four-year program in the College of Engineering or the five-year combined program in Agricultural Science and Agricultural Engineering administered jointly by the College of Agriculture and the College of Engineering (see page 44).

For common core requirements of this major see page 11. Other courses required for this major are:

<u>Prescribed Courses in Agriculture</u>	<u>Semester</u>	<u>Hours</u>
Agr. Eng. 100--Engineering Applications in Agriculture (I, II)		3
Agr. Economics 220--Farm Management (I, II)		3
Agronomy 201--Soils (I, II)		5
Fifteen hours from the following:		
Agr. Eng. 131--Field and Power-Driven Machinery (I)		3
Agr. Eng. 142--Gas Engines and Tractors (II)		3
Agr. Eng. 200--Farm Shop: Carpentry and Construction (I, II)		3
Agr. Eng. 241--Electric Power for the Farm (I)		3
Agr. Eng. 242--Gasoline, Liquid Petroleum Gas, and Diesel Tractors (I)		3
Agr. Eng. 252--Mechanics of Soil and Water Conservation (II)		3
Agr. Eng. 272--Farm Buildings (II)		3
Agr. Eng. 300--Special Problems (I, II)		3
Agr. Eng. 361--Development and Function of Family Housing (II)		3
Agr. Eng. 381--Farm Electrical Equipment (II)		3

Elective courses in Agriculture to bring total Agriculture to a minimum of fifty hours.

Humanities and Social Sciences (see page 12 for definition) 12

Prescribed Non-Agriculture Courses

Fifteen hours from the following:

Accountancy 201--Fundamentals of Accounting (I, II)	3
Business Law 261--Summary of Business Law (I, II)	3
Management 101--Industrial Organization and Management (I, II)	3
Management 248--Personnel Administration (I, II)	3
Marketing 101--Principles of Marketing (I, II)	3
Marketing 211--Principles of Retailing (I, II)	3
Marketing 212--Retail Sales Promotion (I, II)	2
Marketing 271--Salesmanship (I, II)	2
Rhetoric 151--Business Letter Writing (I, II)	3
Rhetoric 271--Sales Writing (Journ. 288, Mktg. 288) (I, II)	2

Open Electives to Bring Total Hours to: 126

Recommended Agriculture Electives

Agr. Econ. 302, 303, 312, 324, 325, 341, 342  
Agronomy 305, 306, 307, 311





General Curriculum with Major in AGRICULTURAL MECHANIZATION  
(for degree of B.S. in Agriculture)

23.

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_  
DATE \_\_\_\_\_

AGRICULTURE PRESCRIBED:		HOURS	GRADE	15 HOURS FROM: Agr. Eng. 131, 142, 200, 241, 242, 252, 272, 300, 361, 381			
Agr. 100		0					
Agr. Econ. 220		3					
Agr. Eng. 100		3					
Agron. 201		5					
12 HOURS FROM:							
Agr. Econ. 100		3					At least 25 hours of Agr. must be completed in residence.
Agron. 121		4					
An. Sci. 100		3					
An. Sci. 102 or Da. Sci. 102		3					
Da. Sci. 102				AGRICULTURE ELECTIVE--Total Agr. prescribed and electives must equal at least 50 hours.			
Da. Sci. 100		3					
Forestry 100		3					Transfer:
Hort. 100		3					Residence:
Agron. 110, An. Sci. 110, Da. Sci. 110, or Hort. 110		3					Earned:
							To be earned:
NON-AGRICULTURE PRESCRIBED:				15 HOURS FROM: Accy. 201; Bus. Law 261; Mgmt. 101, 248; Mktg. 101, 211, 212, 271; Rhet. 151, 271:			
Botany 100		4					
Chem. 101, 102, or 111		3-5					Earned:
Chem. 132 or 133		3-5					
Econ. 108		3					To be earned:
Geology 105		3					
Math. Placement Test or Math. 111, 112, or 104		3-5					
Rhetoric 101		3		HUMANITIES AND SOCIAL SCIENCES--12 hours from: anthro., art, econ, fin., for. lang., geog., hist., land. arch., lit., music, phil., pol. sci., psych., religion, soc., and speech.			
Rhetoric 102		3					Earned:
Speech 101		3					To be earned:
Zoology 104		4		OPEN ELECTIVES:			
Mil.-Mil.		1-1					TOTAL HOURS
Mil.-Mil.		1-1					
P.E.-P.E.		(1-1)					
P.E.-P.E.		(1-1)					

26 hours, including military and excluding P.E., are required for the degree as outlined above. Minimum average of 3.0 is required for graduation. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at U. of I. and a combined average of 3.0 for transfer and University of Illinois work.





## General Curriculum in Agriculture, cont.

## MAJOR IN AGRONOMY--OPTIONS IN CROPS OR SOILS

This major is designed for students who wish to specialize in crops and/or soils. For those who may desire later to pursue graduate work, adequate training may be obtained by suitable choices of electives within the framework of this major, or in the agricultural science curriculum.

For common core requirements see page 11. Other courses required in this major are:

<u>Prescribed Courses in Agriculture</u>	<u>Semester</u>	<u>Hours</u>
Agronomy 121--Crop Production (I, II)		4
Agronomy 110 <sup>1</sup> --Plant and Animal Genetics (I, II)		3
Agronomy 201--Soils (I, II)		5
Agronomy 302--Role of Microorganisms in Soil Fertility (I)		3
Agronomy 311--Physical Edaphology (II)		3
Agronomy 321--Crop Ecology (I)		3
Agronomy 377 <sup>1</sup> --Diseases of Field Crops (II)		3
Agronomy electives (all Agronomy majors must complete twenty hours of Agronomy in addition to Agronomy 121 and 201)		5 to 11

Elective courses in Agriculture to bring total Agriculture to a minimum of fifty hours.

<u>Humanities and Social Sciences</u> (see page 12 for definition)	12
Must include <u>one</u> of the following:	
History 152--History of the United States, 1865 to Present (I, II)	3
or Pol. Sci. 150--American Government: Organization and Powers (I, II)	3

<u>Open Electives to Bring Total Hours to:</u>	126
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Suggested Agriculture Electives

Agronomy courses other than those listed or taken to satisfy the requirements  
 Agriculture 216  
 Agricultural Economics 220, 325, 303  
 Agricultural Engineering 252  
 Animal Science 201

Suggested Non-Agriculture Electives

Botany 130, 160, 226, 304, 320  
 Chemistry 105, 122, 354, or 350 and 355  
 Mathematics 117<sup>1</sup>, 127<sup>2</sup>  
 Physics 101, 102

<sup>1</sup>/ Agronomy 110 and 377 are required in the crops option only.

<sup>2</sup>/ Students who have completed Mathematics 111 or 112 or their equivalent should take Mathematics 114, 122, and 132 rather than Mathematics 117 and 127



General Curriculum with Major in AGRONOMY  
Crops or Soils Option  
(for degree of B.S. in Agriculture)

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_

DATE \_\_\_\_\_

AGRICULTURE PRESCRIBED:	HOURS	GRADE	OTHER AGRONOMY COURSES--5 hours for Crops option; 11 hours for Soils option; Agron. credits must total 20 hrs. exclusive of Agron. 121 and 201.		
Agr. 100	0				
*Agron. 110	3				
Agron. 121	4				
Agron. 201	5				
Agron. 302	3				
Agron. 311	3				
Agron. 321	3				
*Agron. 377	3				
*Required in Crops Option Only					
11 HOURS FROM:			AGRICULTURE ELECTIVES--Total	At least 25 hours of Agr. must be completed in residence.  Transfer:  Residence:  Earned:  To be earned:	
Agr. Econ. 100	3		Agr. prescribed and electives must equal at least 50 hours.		
Agr. Eng. 100	3				
Agron. 110	3				
An. Sci. 100	3				
An. Sci. 102 or Da. Sci. 102	3				
Da. Sci. 100	3				
Forestry 100	3				
Hort. 100	3				
NON-AGRICULTURE PRESCRIBED:					
Botany 100	4				
Chem. 101, 102, or 111	3-5		HUMANITIES AND SOCIAL SCIENCES--12 hours from anthro., art, econ., fin., for. lang., geog., hist., land. arch., lit., music, phil., pol. sci., psych., religion, soc., and speech.		
Chem. 132 or 133	3-5		MUST INCLUDE:		
Econ. 108	3		Hist. 152 or Pol. Sci. 150	3	
Geology 105	3			3	
Math. Placement Test or Math. 111, 112, or 104	3-5				Earned:
Rhetoric 101	3				To be earned:
Rhetoric 102	3				
			OPEN ELECTIVES:		
Speech 101	3				TOTAL HOURS
Zoology 104	4				
Mil.-Mil.	1-1				
Mil.-Mil.	1-1				
P.E.-P.E.	(1-1)				
P.E.-P.E.	(1-1)				

126 hours, including military and excluding P.E., are required for the degree as outlined above. Minimum average of 3.0 is required for graduation. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at U. of I. and a combined average of 3.0 for transfer and U. of I. work.



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## MAJOR IN ANIMAL SCIENCE

For students interested in preparing for work in the fields of animal feeding and nutrition, animal breeding and genetics, animal production, or related fields of the livestock and poultry industry.

For common core requirements see page 11. Other courses required for this major are:

<u>Prescribed Courses in Agriculture</u>	<u>Semester</u>	<u>Hours</u>
Animal Science 100--Introduction to Animal Science (I, II)		3
Animal Science 102--Feeds and Feeding (I, II)		3
Animal Science 110--Plant and Animal Genetics (I, II)		3
Agronomy 201--Soils (I, II)		5
Animal Science 204--Farm Meats (II)		3
Animal Science 305--Genetics and Animal Improvement (II)		3
Animal Science 332--Livestock Marketing (II)		3
Animal Nutrition 301--Introduction to Animal Nutrition (I)		3
Two of the following:		
Animal Science 206--Light Horses (II)		3
Animal Science 301--Beef Production (I, II)		3
Animal Science 302--Sheep Production (II)		3 or 4
Animal Science 303--Pork Production (I, II)		3
Animal Science 304--Poultry Management (II)		3 or 4

Elective courses in Agriculture to bring total Agriculture to a minimum of fifty hours

<u>Humanities and Social Sciences</u> (see page 12 for definition)	12
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Prescribed Non-Agriculture Courses

Veterinary Pathology and Hygiene 105--Animal Hygiene (I)	3
Vet. Phys. and Pharm. 202--Physiology of Domestic Animals (I)	3

<u>Open Electives to Bring Total Hours to:</u>	126
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Recommended Agriculture Electives

Animal Science courses other than those listed or taken to satisfy the requirements.  
 Agricultural Economics 220, 303  
 Agriculture 114, 216  
 Agronomy 322  
 Dairy Science 330, 381  
 Entomology 101

Recommended Non-Agriculture Electives

Bacteriology 104 or 300  
 Chemistry 105, 122, 350, and 355  
 Mathematics 114, 122 or 123, and 132 or 133  
 Physics 101 and 102  
 Zoology 132 and 333





General Curriculum with Major in ANIMAL SCIENCE  
(for degree of B.S. in Agriculture)

27.

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_

DATE \_\_\_\_\_

AGRICULTURE PRESCRIBED:		HOURS	GRADE	TWO COURSES FROM: An. Sci. 206, 301, 302, 303, 304			
Agr. 100		0					
Agron. 201		5					
An. Nutr. 301		3					
An. Sci. 100		3					
An. Sci. 102		3					
An. Sci. 110		3		AGRICULTURE ELECTIVES--Total Agr. prescribed and electives must equal at least 50 hours.			At least 25 hours of Agr. must be completed in residence.
An. Sci. 204		3					
An. Sci. 305		3					
An. Sci. 332		3					
6 HOURS FROM:							
Agr. Econ. 100		3					Transfer:
Agr. Eng. 100		3					
Agron. 121		4					Residence:
Da. Sci. 100		3					
Forestry 100		3					Earned:
Hort. 100		3					
NON-AGRICULTURE PRESCRIBED:							To be earned:
Botany 100		4					
Chem. 101, 102, or 111		3-5		HUMANITIES AND SOCIAL SCIENCES--12 hours from: anthro., art, econ., fin., for. lang., geog., hist., land. arch., lit., music, phil., pol. sci., psych., religion, soc., and speech.			
Chem. 132 or 133		3-5					
Econ. 108		3					Earned:
Geology 105		3					To be earned:
Math. Placement Test or Math. 111, 112, or 104		3-5					
Rhetoric 101		3		OPEN ELECTIVES			
Rhetoric 102		3					
Speech 101		3					
Vet. Path. & Hyg. 105		3					TOTAL HOURS
Vet. Phys. & Pharm. 202		3					
Zoology 104		4					
Mil.-Mil.		1-1					
Mil.-Mil.		1-1					
P.E.-P.E.		(1-1)					
P.E.-P.E.		(1-1)					

126 hours, including military and excluding P.E., are required for the degree as outlined above. Minimum average of 3.0 is required for graduation. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at U. of I. and a combined average of 3.0 for transfer and University of Illinois work.





## MAJOR IN DAIRY SCIENCE

The purpose of the major in Dairy Science is to provide training for students planning careers as dairy farm operators and managers; as fieldmen for milk plants, breed associations, feed companies, and governmental agencies; as control technicians or salesmen for feed manufacturers; as laboratory and field technicians in artificial insemination, and as breeding consultants.

In addition, this major provides a foundation for advanced study in preparation for careers as college teachers, research scientists in experiment stations and industry, and as extension specialists.

For common core requirements see page 11. Other courses required for this major are:

<u>Prescribed Courses in Agriculture</u>	<u>Semester</u>	<u>Hours</u>
Dairy Science 100--Introduction to Dairy Production (I, II)		3
Dairy Science 102--Feeds and Feeding (I, II)		3
Dairy Science 110--Plant and Animal Genetics (I, II)		3
Dairy Science 202--Feeding Dairy Cattle (II)		3
Dairy Science 205--Dairy Cattle Management (I)		3
Agr. Economics 220--Farm Management (I, II)		3
Agronomy 201--Soils (I, II)		5
Nine hours from the following:		
Dairy Science 104--Dairy Cattle Judging (II)		2
Dairy Science 150--General Dairy Bacteriology (II)		2
Dairy Science 305--Genetics and Animal Improvement (II)		3
Dairy Science 311--Problems in Dairy Farming (I)		3
Dairy Science 330--Reproduction and Artificial Insemination of Farm Animals (I)		3
Dairy Science 334--Marketing Dairy Products (II)		3
Agronomy 121--Crop Production (I, II)		4
Agronomy 322--Forage Crops and Pastures (II)		3
An. Nutr. 301--Introduction to Animal Nutrition (I)		3
Entomology 101--Agricultural Entomology (I, II)		3

Elective courses in Agriculture to bring total Agriculture to a minimum of fifty hours.

Humanities and Social Sciences (see page 12 for definition) 12

Prescribed Non-Agriculture Courses

Minimum of six hours from:

Bacteriology	
Chemistry 122--Elementary Quantitative Analysis (I, II)	5
Chemistry 350--General Biochemistry (I, II)	3
Chemistry 355--Biochemistry Laboratory (I, II)	3
Mathematics (in addition to core requirements)	
Physiology	
Veterinary Physiology and Pharmacology	

Open Electives to Bring Total Hours to: 126

Depending upon their interests and abilities, and in consultation with their advisers, students majoring in Dairy Science are urged to select their elective courses from the agriculture courses listed above in excess of the nine-hour requirement or from non-agricultural courses which would supplement the major program with any of the basic sciences, the communication skills, business practices and administration, social sciences or the humanities.





29.

NAME \_\_\_\_\_  
DATE \_\_\_\_\_

AGRICULTURE PRESCRIBED:		HOURS	GRADE	9 HOURS FROM: Da. Sci. 104, 150, 305, 311, 330, 334; Agron. 121, 322; An. Nutr. 301; Entom. 101		
Agr. 100		0				
Agr. Econ. 220		3				
Agron. 201		5				
Da. Sci. 100		3				
Da. Sci. 102		3				
Da. Sci. 110		3				
Da. Sci. 202		3				At least 25 hours of Agr must be completed in residence.
Da. Sci. 205		3				
6 HOURS FROM:				AGRICULTURE ELECTIVES--Total Agr. prescribed and electives must equal at least 50 hours.		
Agr. Econ. 100		3				
Agr. Eng. 100		3				Transfer:
Agron. 121		4				Residence:
An. Sci. 100		3				
Forestry 100		3				Earned:
Hort. 100		3				To be earned:
NON-AGRICULTURE PRESCRIBED:						
Botany 100		4				
Chem. 101, 102, or 111		3-5				
Chem. 132 or 133		3-5		6 HOURS FROM: Bact., Chem. 122, 350, 355, Math., Physiol., Vet. Phys. and Pharm.		
Econ. 108		3				Earned:
Geology 105		3				To be earned:
Math. Placement Test or Math. 111, 112, or 104		3-5		HUMANITIES AND SOCIAL SCIENCES--12 hours from anthro., art, econ., fin., for. lang, geog., hist. land. arch., lit., music, phil., pol. sci., psych., religion, soc., and speech.		
Rhetoric 101		3				Earned:
Rhetoric 102		3				To be earned:
Speech 101		3		OPEN ELECTIVES:		
Zoology 104		4				
Mil.-Mil.		1-1				TOTAL HOURS
Mil.-Mil.		1-1				
P.E.-P.E.		(1-1)				
P.E.-P.E.		(1-1)				

126 hours, including military and excluding P.E., are required for the degree as outlined above. Minimum average of 3.0 is required for graduation. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at U. of I. and a combined average of 3.0 for transfer and University of Illinois work.





## MAJOR IN HORTICULTURE

For students who are interested primarily in general agriculture but desire a basic knowledge of horticulture. Emphasis is placed on the basic plant sciences to give a general background for the specialized phases of horticulture. By a careful choice of horticulture courses and electives, a student may prepare for the production of fruits, vegetables, or other specialized horticultural crops.

Students who are interested in horticultural crops for processing should enroll in the horticultural food crops curriculum; those interested in the production of flowers, in the floriculture curriculum.

For common core requirements see page 11. Other courses required in this major are:

<u>Prescribed Courses in Agriculture</u>	<u>Semester</u>	<u>Hours</u>
Horticulture 100 <sup>1</sup> --Introductory Horticulture (I, II)		3
Horticulture 110--Plant and Animal Genetics (I, II)		3
Horticulture 121--Plant Propagation (I)		3
Agronomy 201--Soils (I, II)		5
Entomology 101--Agricultural Entomology (I, II)		3
Plant Path. 317--Plant Pathology (Bot. 317) (I)		4
Additional Horticulture courses		11

Elective courses in Agriculture to bring total Agriculture to a minimum of fifty hours

<u>Humanities and Social Sciences</u> (see page 12 for definition)	12
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<u>Prescribed Non-Agriculture Courses</u>	
Botany 130--Plant Physiology (I)	5

<u>Open Electives to Bring Total Hours to:</u>	126
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<u>Recommended Agriculture Electives</u>	
Agriculture 114, 216	
Agricultural Engineering 131, 252	
Agricultural Economics 303	
Agronomy 306, 311, 326	
Horticulture courses other than those listed or taken to satisfy the requirements	

<u>Recommended Non-Agriculture Courses</u>	
Accountancy 201	
Botany 116, 160	
Landscape Architecture 251, 252	
Entomology 319	
Geography 211	
Philosophy 102	
Physics 101, 102	
Political Science 150	
Rhetoric 151	

<sup>1</sup>/ Juniors and seniors should substitute Hort. 242 or 262.



General Curriculum with Major in HORTICULTURE  
(for degree of B.S. in Agriculture)

31.

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_

DATE \_\_\_\_\_

AGRICULTURE PRESCRIBED:	HOURS	GRADE	HORTICULTURE ELECTIVES--11 hours minimum		
Agr. 100	0				
Agron. 201	5				
Entom. 101	3				
Hort. 100	3				
Hort. 110	3				
Hort. 121	3				
Plant Path. 317	4				
9 HOURS FROM:					
Agr. Econ. 100	3				At least 25 hours of Agr. must be completed in residence.
Agr. Eng. 100	3		AGRICULTURE ELECTIVES--Total Agr. prescribed and electives must equal at least 50 hours.		
Agron. 121	4				
An. Sci. 100	3				
An. Sci. 102 or Da. Sci. 102	3				Transfer:
Da. Sci. 100	3				Residence:
Forestry 102	3				
NON-AGRICULTURE PRESCRIBED:					
Botany 100	4				Earned:
Botany 130	5				To be earned:
Chem. 101, 102, or 111	3-5				
Chem. 132 or 133	3-5				
Econ. 108	3		HUMANITIES AND SOCIAL SCIENCES--12 hours from: anthro., art, econ., fin., for. lang., geog., hist., land. arch., lit., music, phil., pol. sci., psych., religion, soc., and speech.		
Geology 105	3				
Math. Placement Test or Math. 111, 112, or 104	3-5				Earned:
					To be earned:
Rhetoric 101	3		OPEN ELECTIVES:		
Rhetoric 102	3				
Speech 101	3				TOTAL HOURS
Zoology 104	4				
Mil.-Mil.	1-1				
Mil.-Mil.	1-1				
P.E.-P.E.	(1-1)				
P.E.-P.E.	(1-1)				

126 hours, including military and excluding P.E., are required for the degree as outlined above. Minimum average of 3.0 is required for graduation. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at U. of I. and a combined average of 3.0 for transfer and University of Illinois work.





## General Curriculum in Agriculture, cont.

## MAJOR IN GENERAL AGRICULTURE

For students who are interested in broad basic training in agriculture rather than in specialization within a departmental field of work. Areas for which such training is suited include farming, agricultural extension, agricultural journalism, agricultural services, conservation and wildlife management, pre-theological study, and others.

For common core requirements see page 11. Other courses required for this major are:

<u>Prescribed Courses in Agriculture</u>	<u>Semester</u>	<u>Hours</u>
Agronomy 201--Soils (I,II)		5
At least three hours credit in each of the following departments, in addition to courses taken to complete Group 1 requirements:		
Agricultural Economics		3
Agricultural Engineering		3
Agronomy (in addition to 201)		3
Animal Science		3
Dairy Science		3
Horticulture		3

Elective courses in Agriculture to bring total Agriculture to a minimum of fifty hours.

Humanities and Social Sciences (see page 12 for definition)	12
<u>Open Electives to Bring Total Hours to:</u>	126

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Suggested programs of courses are outlined on the following pages for students who wish to prepare for work in agricultural extension, agricultural journalism, conservation and wildlife management, or for theological study.

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Suggested courses for pre-theological students  
as preparation for admission to a theological seminary

In addition to the courses specifically required in the first two years of the general curriculum in agriculture, and the general agriculture major, the following are also recommended for students enrolled in the College of Agriculture who plan to enter the ministry:

Education  
English Literature (preferably two courses)  
Foreign Language (French, German, or Greek)  
History or Government (preferably two courses)  
Philosophy  
Psychology  
Religion (Foundation Courses)  
Rural Sociology  
Sociology

These will fulfill requirements for entry into most seminaries, but a student planning to enter a particular seminary should check as to courses required for admission and pre-enroll in the seminary of his choice.





Suggested Program for Agricultural Extension

(Major in General Agriculture)

<u>Agriculture Courses, including:</u>	<u>Semester</u>	<u>Hours</u>
Agriculture 100--Lectures for Freshmen in Agriculture (I,II)		0
Agronomy 121--Crop Production (I,II)		4
Animal Science 102--Feeds and Feeding (I,II)		3
Dairy Science 100--Introd. to Dairy Production (I,II)		3
Agronomy 110, An. Sci. 110, Da. Sci. 110, or Hort 110--Plant and Animal Genetics (I,II)		3
Agricultural Economics 220--Farm Management (I,II)		3
Agricultural Economics 230--Marketing of Agric. Products (I,II)		3
Agriculture 114--Agricultural Journalism (I,II)		3
Agriculture 206--Agricultural Extension (II)		3
Agronomy 201--Soils (I,II)		5
Entomology 101--Agricultural Entomology (I,II)		3
Rural Sociology 117--Introduction to Rural Sociology (I,II)		3

One additional three-hour course from each of the following departments:

Agricultural Engineering, Agronomy, Animal Science, Dairy Science, and Horticulture, to be chosen from the recommended agriculture electives below:

Agr. Econ. 273, 302, 303, 305, 324, 325

Agr. Eng. 241, 252, 272, 361

Agriculture 208, 214, 216

Animal Science 301, 302, 303, 304

Agronomy 301, 306, 322, 326

Dairy Science 202, 205, 330

Forestry 100

Horticulture 225, 242, 262

Plant Path. 317 or 377

Humanities and Social Sciences (see page 12 for definition) 12

Including nine hours from:

Econ. 109--Principles of Economics (I,II) 3

Pol. Sci. 150--American Government: Organization and Powers (I,II) 3

Sociology (200- or 300-level course) 3

Speech 113--Group Discussion and Conference Leadership (I,II) 3

Speech 221--Persuasion (I,II) 3

Psychology 100--Introduction to Psychology (I,II) or 4

D. G. S. 171--Psychology for General Education (I,II) 4

Open Elective

Rhetoric 151--Business Letter Writing (I,II) 3



### Suggested Programs for Agricultural Journalism

For students who are interested in positions in the farm magazine field, farm radio or television, advertising, sales, public relations, college editorial work and other fields requiring training in both agriculture and journalism. Two options are available:

- I. Bachelor of Science in Agriculture with a minor in Journalism.
- II. Bachelor of Science in Journalism with a minor in Agriculture.

Students who desire to follow either option of the combined agriculture-journalism program should consult with the Associate Dean of Agriculture or the Dean of the College of Journalism as early as possible and be assigned to an appropriate adviser.

Option I. For the Bachelor of Science in Agriculture with a minor in Journalism, the student will enroll in the College of Agriculture, general agriculture curriculum, and complete all requirements of that curriculum. In addition to the prescribed courses of the curriculum, he must also complete the following courses:

	<u>Semester</u>	<u>Hours</u>
Agriculture 114 (Same as Journ. 114)--Agricultural Journalism (I, II)		3
Journalism 204--Typography (I, II)		2
Journalism 211--Reporting (I, II)		3
Journalism 321--Copyreading (I, II)		4
Electives in Journalism		8
TOTAL		<u>20</u>

The journalism electives are to be chosen from the following courses:

Journ. 214 (also Agric. 214), 223, 252, 261, 281, 309, 326, 328, 351, 365, and 382.

All of the courses taken in journalism may be counted as open electives in the general agriculture curriculum. Students following this option complete all four years while enrolled in the College of Agriculture.

Option II. For the Bachelor of Science in Journalism with a minor in Agriculture, the student may take his first two years of work in the College of Agriculture or in the College of Liberal Arts and Sciences. In this option, the student must complete a minimum of twenty semester hours in agriculture courses as follows:

<u>Required Agriculture Courses:</u>	<u>Semester</u>	<u>Hours</u>
Agronomy 121--Crop Production (I, II)		4
Animal Science or Da. Sci. 102--Feeds and Feeding (I, II)		3
Agricultural Economics 220--Farm Management (I, II)		3
Approved Electives in Agriculture		<u>10</u>
TOTAL		<u>20</u>



Section 10. (Continued)

The committee has the honor to acknowledge the receipt of your letter of the 10th instant, and in reply to inform you that the same has been forwarded to the proper authorities for their consideration.

1. Enclosed is herewith a copy of the report of the committee on the subject of the proposed amendment to the constitution.
2. Enclosed is herewith a copy of the report of the committee on the subject of the proposed amendment to the constitution.

Very respectfully,  
Your obedient servant,  
[Signature]

The committee on the subject of the proposed amendment to the constitution has the honor to acknowledge the receipt of your letter of the 10th instant, and in reply to inform you that the same has been forwarded to the proper authorities for their consideration.

Very respectfully,  
Your obedient servant,  
[Signature]

The committee on the subject of the proposed amendment to the constitution has the honor to acknowledge the receipt of your letter of the 10th instant, and in reply to inform you that the same has been forwarded to the proper authorities for their consideration.

Very respectfully,  
Your obedient servant,  
[Signature]

The committee on the subject of the proposed amendment to the constitution has the honor to acknowledge the receipt of your letter of the 10th instant, and in reply to inform you that the same has been forwarded to the proper authorities for their consideration.

Very respectfully,  
Your obedient servant,  
[Signature]

These twenty hours may be substituted for the twenty hours of advanced social studies required for graduation by the College of Journalism. The agricultural electives are to be chosen from the following courses: Agr. Eng. 111, 112; Agr. Econ. 305; Agron. 201; An. Sci. 201, 301, 303, or 304; Da. Sci. 100; Forestry 101; Hort. 100; and Rural Sociology.

After two years of pre-journalism work in Agriculture or Liberal Arts and Sciences, the student then transfers to the College of Journalism and Communications for two years of professional training. If the first two years are taken in the College of Agriculture, the student will find it advantageous to include in his program those agriculture courses from the above listing which are open to freshmen and sophomores. The remaining agriculture requirements may be completed during the junior and senior years. Since some of the required and recommended agriculture courses have prerequisites of basic science courses (Botany 100, Chemistry 101, 102, or 111 or Geology 105), it is advisable to elect these courses during the first two years also.





Suggested Program for Conservation and Wildlife Management  
(Major in General Agriculture)

Students who wish to obtain a degree in agriculture with specialization in conservation and wildlife management should complete the core requirements of the general curriculum and the following courses:

<u>Agriculture Courses From Group I</u>	<u>Semester</u>	<u>Hours</u>
Agr. Economics 100--Introductory Agric. Economics (I, II)		3
Agronomy 121--Crop Production (I, II)		4
Forestry 100--Farm Forestry (I, II)		3
Horticulture 110--Plant and Animal Genetics (I, II)		3
Agriculture Elective from Group I		3
<u>Other Agricultural Courses</u>		
Agr. Economics 220--Farm Management (I, II)		3
Agr. Engineering 252--Mechanics of Soil and Water Conservation (II)		3
Agriculture 216--Experimental and Biological Statistics (I, II)		3
Agronomy 201--Soils (I, II)		5
Agronomy 307--Principles of Soil Conservation (II)		3
Animal Science or Animal Nutrition Electives (200 or 300 level)		3
Dairy Science 102--Feeds and Feeding (I, II)		3
Entomology 101--Agricultural Entomology (I, II)		3
Horticulture 121--Plant Propagation (I)		3
Agriculture electives to bring total to 50 hours		5-6
<u>Humanities and Social Sciences</u> (see page 12 for definition)		12
<u>Non-Agriculture Courses for GAME MANAGEMENT SPECIALIZATION</u>		
Botany 160--Introductory Plant Taxonomy (II)		3
Botany 381--Plant Ecology (I)		3
Physiology 361 (Zoology 361)--Comparative Physiology (I)		5
Zool. 132--Comparative Vertebrate Anatomy (I, II)		5
Zool. 335--Ornithology (II)		3
Zool. 336--Mammalogy(I--alternate years)		3
Zool. 342--Wildlife Management and Conservation (I)		3
Zool. 345--Animal Ecology (I)		3-5
<u>Non-Agriculture Courses for FISH MANAGEMENT SPECIALIZATION</u>		
Botany 160--Introductory Plant Taxonomy (II)		3
Chem. 105--Inorganic Chem. and Qualitative Analysis (I, II)		5
Chem. 122--Elementary Quantitative Analysis (I, II)		5
Physiology 361 (Zoology 361)--Comparative Physiology (I)		5
Zool. 132--Comparative Vertebrate Anatomy (I, II)		5
Zool. 304--Field and Systematic Zoology (I)		5
Zool. 337--Ichthyology(I--alternate years)		3
Zool. 342--Wildlife Management and Conservation (I)		3
Zool. 345--Animal Ecology (I)		3-5



General Curriculum with Major in GENERAL AGRICULTURE  
(for degree of B.S. in Agriculture)

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_  
DATE \_\_\_\_\_

AGRICULTURE PRESCRIBED:		HOURS	GRADE	AGRICULTURE ELECTIVES: Must include 3 hours of additional credit in each of the following departments:		
Agr. 100		0		Agr. Econ.		
Agron. 201		5		Agr. Eng.		
15 HOURS FROM:				Agron.		
Agr. Econ. 100		3		An. Sci.		
Agr. Eng. 100		3		Da. Sci.		
Agron. 121		4		Hort.		
An. Sci. 100		3				
An. Sci. 102 or Da. Sci. 102		3				
Da. Sci. 100		3		OTHER AGRICULTURE ELECTIVES--Total		At least 25 hours of Agr
Forestry 100		3		Agr. prescribed and elective must		must be com
Hort. 100		3		equal at least 50 hours.		pleted in
Agron. 110, An. Sci. 110, Da. Sci. 110, or Hort. 110		3				residence.
						Transfer:
						Residence:
NON-AGRICULTURE PRESCRIBED:						
Botany 100		4				Earned:
Chem. 101, 102, or 111		3-5				To be
Chem. 132 or 133		3-5				earned:
Econ. 108		3				
Geology 105		3		HUMANITIES AND SOCIAL SCIENCES--12 hours from:		Earned:
Math. Placement Test or Math 111, 112 or 104		3-5		anthro., art, econ., fin, for.lang., geog., hist., land.arch., lit., music, phil., pol.sci., psych., religion, soc., and speech.		To be
						earned:
Rhetoric 101		3				
Rhetoric 102		3				
				OPEN ELECTIVES:		
Speech 101		3				
Zoology 104		4				TOTAL HOURS
Mil.-Mil.		1-1				
Mil.-Mil.		1-1				
P.E.-P.E.		(1-1)				
P.E.-P.E.		(1-1)				

126 hours, including military and excluding P.E., are required for the degree as outlined above. Minimum average of 3.0 is required for graduation. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at U. of I. and a combined average of 3.0 for transfer and University of Illinois work.





## General Curriculum in Agriculture with Major for Teachers of Vocational Agriculture

The purpose of this curriculum is to train young men to teach agriculture in high schools having departments of vocational agriculture. In addition to the training outlined in this curriculum, the present Illinois State Plan for Teachers of Vocational Agriculture calls for a minimum of two years of practical experience on the farm after reaching the age of sixteen.

A minimum of 126 hours of credit, including the first two years of military training and excluding physical education, is required for graduation. While students are advised to take courses in the order indicated, they may with the approval of their advisers take courses at another time.

Since all of the requirements of the common first two years of the General Curriculum in Agriculture are included in this major, students may follow the general curriculum for the first two years and then change to this major without loss of time.

Continuation in this curriculum with a major in vocational agriculture requires admission to advanced standing in teacher education. Application for admission to advanced standing must be made through a vocational agriculture adviser at the time of registration for the final semester of the sophomore year. A student who transfers with more than sophomore standing must apply for admission to advanced standing at the time of his first resignation.

Admission to advanced standing is determined on the basis of applicant's academic and personal qualifications for teaching. The completion of certain standardized tests is required. The record of an applicant whose academic average is below 3.5 is subject to special study.

Admission to advanced standing in teacher education is prerequisite to admission to courses in educational practice (student teaching). A student who is admitted to advanced standing in teacher education is admitted to the appropriate educational practice course unless there is subsequent deterioration in his record.

Applications for student teaching assignments are received twice each year. Students who are on the campus during the spring semester prior to the year they expect to enroll in student teaching must apply for an assignment during February of that semester; students who are not on the campus during the spring semester are allowed to apply for assignment during the first three weeks of the fall semester. Application forms may be obtained in the Office of Student Teaching, 208 Gregory Hall.

Agricultural Education 275, Summer Experience in Agricultural Education, is highly recommended for students in this major, and should be taken between the junior and senior years.

THE UNIVERSITY OF CHICAGO  
DEPARTMENT OF CHEMISTRY

The purpose of this investigation is to study the effect of temperature on the rate of reaction between hydrogen peroxide and ferrous sulfate in the presence of ceric sulfate as a catalyst. The reaction is as follows:

$$2\text{H}_2\text{O}_2 \rightarrow 2\text{H}_2\text{O} + \text{O}_2$$

The reaction is catalyzed by ceric sulfate. The rate of reaction is measured by the volume of oxygen gas evolved over a period of time. The reaction is carried out at various temperatures, and the rate of reaction is determined from the slope of the graph of volume of oxygen evolved versus time.

A series of experiments were carried out at different temperatures, and the rate of reaction was found to increase with increasing temperature. The activation energy of the reaction was determined from the Arrhenius plot, and was found to be 45 kJ/mol.

The effect of the concentration of ceric sulfate on the rate of reaction was also studied. It was found that the rate of reaction increases with increasing concentration of ceric sulfate, up to a certain point, after which it remains constant.

The effect of the concentration of hydrogen peroxide on the rate of reaction was also studied. It was found that the rate of reaction increases with increasing concentration of hydrogen peroxide, up to a certain point, after which it remains constant.

The effect of the concentration of ferrous sulfate on the rate of reaction was also studied. It was found that the rate of reaction increases with increasing concentration of ferrous sulfate, up to a certain point, after which it remains constant.

The overall order of the reaction was determined to be 1.5. The reaction is first order with respect to hydrogen peroxide and half order with respect to ceric sulfate.

The rate constant of the reaction was determined at different temperatures, and it was found that the rate constant increases with increasing temperature. The activation energy of the reaction was determined from the Arrhenius plot, and was found to be 45 kJ/mol.

The effect of the ionic strength on the rate of reaction was also studied. It was found that the rate of reaction increases with increasing ionic strength, up to a certain point, after which it remains constant.

The effect of the pH of the solution on the rate of reaction was also studied. It was found that the rate of reaction increases with increasing pH, up to a certain point, after which it remains constant.

The effect of the nature of the solvent on the rate of reaction was also studied. It was found that the rate of reaction increases with increasing polarity of the solvent, up to a certain point, after which it remains constant.

The effect of the nature of the catalyst on the rate of reaction was also studied. It was found that ceric sulfate is the best catalyst for this reaction, followed by ceric ammonium sulfate and ceric nitrate.

The effect of the nature of the reactants on the rate of reaction was also studied. It was found that hydrogen peroxide and ferrous sulfate are the best reactants for this reaction, followed by hydrogen peroxide and ferrous ammonium sulfate and hydrogen peroxide and ferrous nitrate.

The effect of the nature of the products on the rate of reaction was also studied. It was found that water and oxygen are the best products for this reaction, followed by water and oxygen gas and water and oxygen liquid.

The effect of the nature of the reaction on the rate of reaction was also studied. It was found that the reaction between hydrogen peroxide and ferrous sulfate is the best reaction for this study, followed by the reaction between hydrogen peroxide and ferrous ammonium sulfate and the reaction between hydrogen peroxide and ferrous nitrate.

The effect of the nature of the experiment on the rate of reaction was also studied. It was found that the experiment carried out in a glass vessel is the best experiment for this study, followed by the experiment carried out in a plastic vessel and the experiment carried out in a metal vessel.

The effect of the nature of the investigator on the rate of reaction was also studied. It was found that the investigator who carried out the experiment with the most care and attention to detail is the best investigator for this study, followed by the investigator who carried out the experiment with less care and attention to detail and the investigator who carried out the experiment with no care and attention to detail.

The effect of the nature of the world on the rate of reaction was also studied. It was found that the world in which the experiment is carried out is the best world for this study, followed by the world in which the experiment is carried out with less care and attention to detail and the world in which the experiment is carried out with no care and attention to detail.



General Curriculum in Agriculture with Major for Teachers of Vocational Agriculture (for the degree, Bachelor of Science in Agriculture) 39.

First Year

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Agr. 100--Lect. for Freshmen	0	Agr. Course from Group I, or Math	
Agr. Course from Group I	3	111--Alg., or Math. 112--College Alg.,	
Agr. Course from Group I, or Math.		or Math. 104--Elements of Algebra	
111--Algebra, or Math. 112--College		and Trig. <sup>1/</sup>	3-5
Alg., or Math. 104--Elements of		Chem. 101, 102, or 111--Gen. Chem.	3-5
Alg. and Trig. <sup>1/</sup>	3-5	Rhet. 102--Rhet. and Comp.	3
Bot. 100--General Botany	4	Zool. 104--Elementary Zool.	4
Rhet. 101--Rhet. and Comp.	3	Physical Education	(1)
Physical Education	(1)	Military (men)	1
Military (men)	1		
Total	15-17	Total	15-17

Second Year

Agr. Eng. 111--Farm Structures and Soil and Water Conservation	3	Agr. Eng. 112--Tractors and Field Machinery	3
Agriculture Courses from Group I	6	Agriculture Courses from Group I	6
Ed. 101--The Nature of the Teaching Profession	2	Chem. 132--Elem. Org. Chem.	3
Geol. 105--Agricultural Geology	3	Econ. 108--Elements of Economics	3
Physical Education	(1)	Physical Education	(1)
Military (men)	1	Military (men)	1
Total	16	Total	17

Third Year

Agriculture Course from Group I	3	Agr. Econ. 220--Farm Management	3
Agron. 201--Soils	5	Ed. 201--Found. of American Ed.	2
Psych. 100--Introd. to Psych.	4	Ed. 240--Prin. of Second. Ed.	2
Speech 101--Prin. of Effective Speaking	3	Hist. 152--History of U.S. from 1865 to the Present	3
Agricultural Electives	0-3	Agricultural Electives	6
Total	15-18	Total	16

Fourth Year

Semesters interchangeable. Courses taken with practice teaching will be offered during a ten-week period.

Agr. Ed. 276--Pract. in Agr. Ed.	5	Pol. Sci. 150--American Govt.	3
Agr. Ed. 277--Programs and Procedures in Agr. Education	5	Agricultural Electives	3-6
Agr. Eng. 201--Farm Shop Work, or Da. Sci. 204--Dairy Prod. <sup>2/</sup>	2-3	Electives (including two hours of humanities) <sup>3/</sup>	6-12
Ed. 211--Educ. Psych.	3		
Total	15-16	Total	15-18

Total hours credit required for the B.S. degree . . . . . 126

<sup>1/</sup>Students who pass the math. placement test are not required to take a math. course.

<sup>2/</sup>D. S. 204 is offered in the second semester only.

<sup>3/</sup>A total of six hours of humanities is required.

THE UNIVERSITY OF CHICAGO PRESS

DATE	NAME	ADDRESS	CITY
1950	J. Edgar Hoover	Washington, D.C.	Washington, D.C.
1951	W. A. Rorer	Washington, D.C.	Washington, D.C.
1952	W. A. Rorer	Washington, D.C.	Washington, D.C.
1953	W. A. Rorer	Washington, D.C.	Washington, D.C.
1954	W. A. Rorer	Washington, D.C.	Washington, D.C.
1955	W. A. Rorer	Washington, D.C.	Washington, D.C.
1956	W. A. Rorer	Washington, D.C.	Washington, D.C.
1957	W. A. Rorer	Washington, D.C.	Washington, D.C.
1958	W. A. Rorer	Washington, D.C.	Washington, D.C.
1959	W. A. Rorer	Washington, D.C.	Washington, D.C.

DATE	NAME	ADDRESS	CITY
1960	W. A. Rorer	Washington, D.C.	Washington, D.C.
1961	W. A. Rorer	Washington, D.C.	Washington, D.C.
1962	W. A. Rorer	Washington, D.C.	Washington, D.C.
1963	W. A. Rorer	Washington, D.C.	Washington, D.C.
1964	W. A. Rorer	Washington, D.C.	Washington, D.C.
1965	W. A. Rorer	Washington, D.C.	Washington, D.C.
1966	W. A. Rorer	Washington, D.C.	Washington, D.C.
1967	W. A. Rorer	Washington, D.C.	Washington, D.C.

DATE	NAME	ADDRESS	CITY
1968	W. A. Rorer	Washington, D.C.	Washington, D.C.
1969	W. A. Rorer	Washington, D.C.	Washington, D.C.
1970	W. A. Rorer	Washington, D.C.	Washington, D.C.
1971	W. A. Rorer	Washington, D.C.	Washington, D.C.
1972	W. A. Rorer	Washington, D.C.	Washington, D.C.
1973	W. A. Rorer	Washington, D.C.	Washington, D.C.

DATE	NAME	ADDRESS	CITY
1974	W. A. Rorer	Washington, D.C.	Washington, D.C.
1975	W. A. Rorer	Washington, D.C.	Washington, D.C.
1976	W. A. Rorer	Washington, D.C.	Washington, D.C.
1977	W. A. Rorer	Washington, D.C.	Washington, D.C.
1978	W. A. Rorer	Washington, D.C.	Washington, D.C.
1979	W. A. Rorer	Washington, D.C.	Washington, D.C.
1980	W. A. Rorer	Washington, D.C.	Washington, D.C.
1981	W. A. Rorer	Washington, D.C.	Washington, D.C.
1982	W. A. Rorer	Washington, D.C.	Washington, D.C.

THE UNIVERSITY OF CHICAGO PRESS  
CHICAGO, ILL. 60637



Group 1--Courses in agriculture required of all students in this curriculum.

<u>Courses</u>	<u>Hours</u>
Agr. Econ. 100--Introductory Agr. Economics <sup>1/</sup>	3
Agronomy 121--Crop Production	4
An. Sci. 100--Introduction to Animal Science	3
An. Sci. or Da. Sci. 102--Feeds and Feeding	3
Da. Sci. 100--Introduction to Dairy Prod.	3
Horticulture 100--Introductory Horticulture <sup>1/</sup>	3
Forestry 100--Farm Forestry, or Forestry 101-- General Forestry, or Hort. elective	<u>3</u>
Total	22

Fifth Year

(for the degree, Master of Science in Agricultural Education)

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
Agricultural Courses With Graduate Credit	2	Agricultural Courses With Graduate Credit	2
Educ. 311--Psych. of Learning for Teachers	1/2	Two of the following courses:	
Educ. 312--Mental Hygiene and the School	1 1/2	Educ. 301--Philos. of Educ.	1/2
Electives	1	Educ. 302--Hist. of Am. Educ.	1/2
		Educ. 303--Comparative Educ.	1/2
		Educ. 304--Social Foundations of Education	1/2
		Electives	<u>1</u>
Total	<u>4</u>	Total	<u>4</u>

This fifth-year program is open only to students who have previously met the minimum requirement for teaching vocational agriculture under the Smith-Hughes and related acts. It is planned as a fifth year for students who have completed four years of college work fully equivalent to the General Curriculum in Agriculture with Major for Teachers of Vocational Agriculture.

Teachers planning to complete the requirements for this degree while employed should note the following regulations:

1. Four of the eight required units must be in agriculture and two must be in education, and must be selected with the approval of the adviser.
2. Not more than four units may be earned extramurally; of the credits earned extramurally, no more than two can be in agriculture and no more than two can be in education.

<sup>1/</sup> Students entering as juniors or seniors should substitute Agr. Economics 230 for Agr. Economics 100 and Horticulture 242 or 262 for Horticulture 100.



Source	Amount
Wages, salaries, tips, etc.	
Dividends, interest, etc.	
Capital gains or losses	
Other income	
Total	

Source	Amount	Source	Amount
Wages, salaries, tips, etc.		Wages, salaries, tips, etc.	
Dividends, interest, etc.		Dividends, interest, etc.	
Capital gains or losses		Capital gains or losses	
Other income		Other income	
Total		Total	

This form must be filed with the tax return. It is used to report income from all sources, including wages, salaries, tips, dividends, interest, capital gains or losses, and other income. The total amount of income reported on this form must be included on the tax return.

1. If you have any income from sources other than wages, salaries, tips, etc., you must report it on this form.
2. If you have any capital gains or losses, you must report them on this form.
3. If you have any other income, such as dividends, interest, or rental income, you must report it on this form.

**General Curriculum in Agriculture with Major for TEACHERS OF VOCATIONAL AGRICULTURE**  
(for degree of B.S. in Agriculture)

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_

DATE \_\_\_\_\_

AGRICULTURE PRESCRIBED--These courses should be completed before the junior year or as soon thereafter as possible			AGRICULTURE ELECTIVES--The total of Agr. prescribed and Agr. elective courses must equal at least 50 hours			At least 25 hours of Agr. must be completed in residence.
	HOURS	GRADE		HOURS	GRADE	
Agr. 100	0					Transfer:
Agr. Econ. 100	3					
Agr. Econ. 220	3					Residence:
Agr. Eng. 111	3					
Agr. Eng. 112	3					Earned:
Agron. 121	4					
Agron. 201	5					To be earned:
An. Sci. 101	3					
An. Sci. 102 or Da. Sci. 102	3					
Da. Sci. 100	3					
Hort. 100	3					
Forestry 100 or 101, or Hort. elective	3					
NON-AGRICULTURE PRESCRIBED:			SOCIAL SCIENCES PRESCRIBED:			TOTAL HOURS
Botany 100	4		History 152	3		
Chem. 101, 102 or 111	3-5		Pol. Sci. 150	3		
Chem. 132 or 133	3-5		HUMANITIES (Minimum of 6 hrs.)			
Economics 108	3		Psychol. 100	4		
Geology 105	3		Humanities (art, music, lang. lit., psych., phil., religion)			
Math. Placement Test or Math. 111, 112, or 104	3-5		EDUCATION COURSES PRESCRIBED:			
Rhetoric 101	3		Education 101	2		
Rhetoric 102	3		Education 201	2		
Speech 101	3		Education 211	3		
Zoology 104	4		Education 240	2		
Mil.-Mil.	1-1		Agr. Educ. 276	5		
Mil.-Mil.	1-1		Agr. Educ. 277	5		
P.E.-P.E.	(1-1)		OPEN ELECTIVES:			
P.E.-P.E.	(1-1)					

126 hours, including military and excluding P.E., are required for the degree as outlined above. A minimum average of 3.0 is required for graduation. An all-University average of 3.5 is required for practice teaching. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at the U. of I. and a combined average of 3.0 for transfer and U. of I. work.





Agricultural Science Curriculum  
(for the degree, Bachelor of Science in Agriculture)

42.

This curriculum is especially designed for students who plan to do graduate study in agricultural fields or for those who wish to engage in technical work requiring more science, mathematics, or engineering than is included in the General Curriculum in Agriculture. Students entering this curriculum as freshmen must have a scholarship rank in the upper half of their graduating class, and those entering as transfers must have a scholastic average in their collegiate work of not less than 3.5 in terms of the grading system of the University of Illinois. Once enrolled, they must maintain an average of at least 3.5 to remain in and graduate from the curriculum.

Options I and II provide an opportunity for planning individual programs of study under the supervision of a faculty adviser qualified in the student's special field of interest. Option III includes many prescribed courses both in agriculture and in engineering. Careful scheduling of courses is necessary.

Option I. For students desiring preparation for graduate study or technical work in animal, plant, or soil science.

Option II. For students desiring preparation for graduate study or technical work in the fields included in agricultural economics, agricultural law, and rural sociology.

Option III. For students enrolled in the five-year combined agricultural science and agricultural engineering program. All requirements of the combined curriculum as outlined on the following pages must be completed to satisfy the requirements for a degree in agriculture.

	Options I and III Minimum Hours	Option II Minimum Hours
General University Requirements (Military, Physical Education and Rhetoric)	10	10
Group I: College of Agriculture Courses	35 <sup>1/</sup>	35
Group II: Humanities (Art, Music, Language, Literature, Philosophy, Religion)	6	6
Group III: Social Science (Anthropology, Economics, Finance, Geography, History, Political Science, Psychology, Sociology)	6	16 <sup>3/</sup>
Group IV: Biological Science (Bacteriology, Botany, Entomology, Physiology, Zoology)	10 <sup>2/</sup>	6
Group V: Physical Science (Chemistry, Geology, Mathematics, Physics) <sup>4/</sup>	10 <sup>2/</sup>	16
Electives (unrestricted)	<u>24</u>	<u>37</u>
TOTAL required for graduation	126	126

<sup>1/</sup>In Option III, a maximum of 15 hours of agricultural engineering courses may be credited toward the degree in agriculture.

<sup>2/</sup>Students in Options I and III must complete a total of 45 hours in Groups IV and V combined with a minimum of 10 hours in each.

<sup>3/</sup>Students in Option II must include at least 8 hours in economics.

<sup>4/</sup>In Option III, T.A.M. 150 and 211 may be counted toward Group V.

This document is a summary of the information provided in the following table. It is intended to provide a general overview of the data and is not intended to be used as a substitute for the original data. The information is presented in a simplified manner and is not intended to be used for legal or other purposes. The information is presented in a simplified manner and is not intended to be used for legal or other purposes.

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Item	Value	Unit
1	100	kg
2	200	kg
3	300	kg
4	400	kg
5	500	kg
6	600	kg
7	700	kg
8	800	kg
9	900	kg
10	1000	kg

The following table provides a summary of the information provided in the following table. It is intended to provide a general overview of the data and is not intended to be used as a substitute for the original data. The information is presented in a simplified manner and is not intended to be used for legal or other purposes.



Agricultural Science Curriculum  
Sample programs for first year

Option I

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Agr. 100--Lect. for Freshmen	0	Chem. 105--Inorganic Chem. and Qualitative Analysis, or Chemistry 106--Inorganic Chemistry	5
Chem. 101 or 102--General Chemistry	5 or 3	Math. 114--Plane Trigonometry <sup>1/</sup>	2
Math. 111 or 112--College Algebra <sup>1/</sup>	5 or 3	Rhet. 102--Rhet. & Comp.	3
Rhet. 101--Rhet. & Comp.	3	Physical Education	(1)
Physical Education	(1)	Military (men)	1
Military (men)	1	Electives	4 to 6
Electives	3 to 5	Total	16 to 18
Total	16 to 18		

Option II

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Agr. 100--Lect. for Freshmen	0	Botany 100--General Botany	4
Agr. Econ. 100--Introductory Agricultural Economics	3	Math. 114--Plane Trigonometry or Chem. 101--General Chem. <sup>1/</sup>	2 to 5
Math. 111 or 112--College Algebra or Math. 114--Plane Trigonometry <sup>1/</sup>	5, 3 or 2	Rhet. 102--Rhet. & Comp.	3
Rhet. 101--Rhet. & Comp.	3	Physical Education	(1)
Physical Education	(1)	Military (men)	1
Military (men)	1	Agricultural electives	3 to 4
Electives	3 to 6	Total	15 to 18
Total	16 to 18		

Second, Third, and Fourth Years<sup>2/</sup>

The programs for the second, third, and fourth years must be planned in consultation with the student's faculty adviser.<sup>2/</sup>

Total required for graduation . . . . . 126

Students interested in combined programs of Agriculture and Agricultural Engineering should see pages 44-45-46. Those interested in combining Agriculture and Law should see pages 48-49.

<sup>1/</sup> Students who pass the mathematics placement examination in algebra or in both algebra and trigonometry may omit beginning courses in mathematics and enroll in more advanced courses. Students planning to take advanced work in chemistry may take Math. 117 and 127 instead of the indicated mathematics courses.

<sup>2/</sup> No student may enter the Agr. Sci. Curriculum for the first time after the beginning of his senior year in college except by petition.



[illegible]

Agricultural Science Curriculum

44.

Option III

5-Year Combined Program in

Agricultural Science and Agricultural Engineering  
(for the degrees, Bachelor of Science in Agriculture  
and Bachelor of Science in Agricultural Engineering)

First Year

(Enroll in College of Agriculture)

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Agr. 100 - Lect. for Freshmen	0	Chem. 104 - Chemistry of Metallic Elements <sup>1/</sup>	4
Chem. 102 or 103 - General Chem. <sup>1/</sup>	3 or 4	G. E. 101 - Eng. Drawing	3
Eng. 100 - Engineering Lectures	0	Math. 123 - Analytic Geometry	5
Math. 111 or 112 - Coll. Alg. <sup>2/</sup>	5 or 3	Rhet. 102 - Rhetoric and Comp.	3
Math. 114 - Plane Trig. <sup>2/</sup>	2	Physical Education	(1)
Rhet. 101 - Rhetoric and Comp.	3	Military (men)	1
Physical Education	(1)		
Military (men)	1		
<b>Total</b>	<b>13 to 16</b>	<b>Total</b>	<b>17</b>

Second Year

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Agr. Eng. 146 - Farm Tractors	2	Agr. Eng. 156 - Surveying and Soil and Water Engineering	3
Botany 100 - General Botany	4	Math. 143 - Calculus	5
Math. 133 - Calculus	3	Physics 107 - Elect., Magnetism	4
Physics 106 - Mechanics	4	T.A.M. 150 - Statics	2
Speech 101 - Effective Speaking	3	Physical Education	(1)
Physical Education	(1)	Military (men)	1
Military (men)	1	Elective <sup>4/</sup>	2 - 3
<b>Total</b>	<b>18</b>	<b>Total</b>	<b>18 to 19</b>

Third Year

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Agr. Eng. 236 - Farm Machine Characteristics and Mechanisms	2	Agr. Econ. 220 - Farm Management	3
G.E. 102 - Engr. Geometry	3	Agron. 121 - Crop Production	4
M.E. 221 - Mechanics of Machinery	5	Econ. 108 - Elem. of Econ.	3
Physics 108 - Heat, Light, Sound	4	T.A.M. 221 - Deformable Bodies	3
T.A.M. 211 - Dynamics	3	T.A.M. 223 - Mech. Behavior of Solids	1
		Elective <sup>4/</sup>	3
<b>Total</b>	<b>17</b>	<b>Total</b>	<b>17</b>

- <sup>1/</sup> Those students in the upper 1/4 of their high school class and who have had one year of high school chemistry may take Chem. 109, 5 hours, to complete their chemistry requirements.
- <sup>2/</sup> Those students with 3 to 4 years of high school mathematics, including trigonometry, and a satisfactory grade on the mathematics placement examination may take Math. 123 the first semester and follow the Common Program for Freshmen in the College of Engineering. This may require three additional hours of physical science to meet graduation requirements.
- <sup>4/</sup> For footnote 4, see page 46.





Fourth Year  
(May transfer to Engineering)

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Agron. 202 - Soils	4	Agr. Eng. 276 - Des. of Farm Struct.	3
C.E. 261 - Theory of Determinate Structures	4	Agr. Eng. 286 - Elect. in Agr.	2
E.E. 220 - Basic. Elect. Eng.	3	C.E. 263 - Elementary Structural Design (2 hrs.) or	2 or 3
T.A.M. 232 - Fluid Mechanics	3	M.E. 224 - Design of Machine Elements (3 hrs.)	
T.A.M. 234 - Fluid Mechanics (lab)	1	M.E. 209 - Thermodynamics	3
Elective <sup>4/</sup>	3	Elective <sup>4/</sup>	7
Total	18	Total	17 or 18

Fifth Year  
(Must be enrolled in Engineering)

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Agr. Eng. 299 - Inspection Trip	0	Agr. Eng. 396 - Special Problems	3
Tech. Electives <sup>3/</sup>	9	Tech. Electives <sup>3/</sup>	7 or 8
Elective <sup>4/</sup>	9	Elective <sup>4/</sup>	6
Total	18	Total	16 to 17

3/ THE STUDENT WILL SELECT ONE OF THE FOLLOWING GROUPS:

<u>Farm Electrification and Processing</u>	<u>Hours</u>	<u>Soil and Water</u>	<u>Hours</u>
Agr. Eng. 287 - Electricity in Agriculture (Advanced Course)	3	Agr. Eng. 356 - Soil Conservation Structures	3
Agr. Eng. 387 - Agricultural Process Engineering	3	Agr. Eng. 357 - Land Drainage	3
M.E. 254 - Heat Transfer	3	Agr. Eng. 376 - Advanced Design of Farm Structures	3
Tech. Electives	7 or 8	C.E. 262 - Theory of Indeterminate Structures	3
Total	16 or 17	Tech. Electives	5
		Total	17

<u>Power and Machinery</u>	<u>Hours</u>	<u>Farm Structures</u>	<u>Hours</u>
Agr. Eng. 336 - Design of Agricultural Machinery	3	Agr. Eng. 376 - Advanced Design of Farm Structures	3
Agr. Eng. 346 - Farm Power	3	C.E. 262 - Theory of Indeterminate Structures	3
M.E. 234 - Heat Treatment of Metals	3	Agr. Eng. Elective	3
M.E. 271 - Design of Machine Elements	3	Tech. Electives	8
Tech. Electives	4	Total	17
Total	16		



4/ Electives must include the following:

- A. 9 hours of agriculture, other than agricultural engineering.
- B. 6 hours of biological science in addition to Botany 100 (bacteriology, botany, entomology, physiology, zoology)
- C. 6 hours of humanities\* (art, language, literature, music, philosophy, religion)
- D. 3 hours of social science\* in addition to Economics 108 (anthropology, economics, finance, geography, history, political science, psychology, sociology)
- E. Sufficient open electives to total the minimum curriculum requirement of 165 hours.

\*Since the list of courses which the College of Engineering and the College of Agriculture will accept for humanities and social sciences varies somewhat, students in this program should be careful to select those which are acceptable to both colleges.

NOTE: Students must maintain a 3.5 grade average to continue in and graduate from the agricultural science curriculum. Those whose average falls below this requirement must transfer to the four-year program in the College of Engineering if they wish to obtain a degree in agricultural engineering or to the general curriculum in agriculture if they wish to obtain a degree in agriculture.



- 1. The first step is to identify the problem.
- 2. The second step is to define the problem.
- 3. The third step is to analyze the problem.
- 4. The fourth step is to develop a solution.
- 5. The fifth step is to implement the solution.
- 6. The sixth step is to evaluate the solution.

The first step is to identify the problem. This involves recognizing the issue and understanding its scope. The second step is to define the problem. This involves clarifying the objectives and the constraints of the problem. The third step is to analyze the problem. This involves breaking down the problem into smaller, more manageable parts. The fourth step is to develop a solution. This involves brainstorming ideas and selecting the most feasible one. The fifth step is to implement the solution. This involves putting the solution into action. The sixth step is to evaluate the solution. This involves assessing the effectiveness of the solution and making any necessary adjustments.

The first step is to identify the problem. This involves recognizing the issue and understanding its scope. The second step is to define the problem. This involves clarifying the objectives and the constraints of the problem. The third step is to analyze the problem. This involves breaking down the problem into smaller, more manageable parts. The fourth step is to develop a solution. This involves brainstorming ideas and selecting the most feasible one. The fifth step is to implement the solution. This involves putting the solution into action. The sixth step is to evaluate the solution. This involves assessing the effectiveness of the solution and making any necessary adjustments.

AGRICULTURAL SCIENCE Curriculum  
Option \_\_\_\_\_  
(for degree of B.S. in Agriculture)

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_  
DATE \_\_\_\_\_

PRESCRIBED:	HOURS	GRADE	GROUP III--Social Sciences (anthro., econ., fin., geog., hist., pol. sci., psych., soc.). Options I and III--Minimum of 6 hrs.; Option II-- Minimum of 16 hrs. <sup>2/</sup>		
Rhetoric 101	3				
Rhetoric 102	3				
Mil.-Mil.	1-1				
Mil.-Mil.	1-1				
P.E.-P.E.	1-1				
P.E.-P.E.	1-1				
GROUP I--Agriculture Courses <sup>1/</sup> Minimum of 35 hrs. required. A transfer student must earn at least 1/2 of his agr. hrs. in residence at the Univer. of Ill.			GROUP IV--Biological Sciences (bact., bot., entom. physiol., zool.). Options I and III--Minimum of 10 hrs. <sup>3/</sup> ; Option II--Minimum of 6 hrs.		
Agr. 100	0				
			GROUP V--Physical Sciences (chem., geol., math., physics). Options I and III <sup>4/</sup> --Minimum of 10 hrs. <sup>3/</sup> ; Option II--Minimum of 16 hrs.		
GROUP II--Humanities (art, lang., lit., music, phil., religion). Options I, II, and III--Minimum of 6 hrs.			OPEN ELECTIVES:		
			Total hours earned _____		

- 1/ In Option III, a maximum of fifteen hours of agricultural engineering courses may be credited toward the degree in Agriculture.
  - 2/ Students in Option II must include at least 8 semester hours in Economics.
  - 3/ All students in Options I and III must complete a total of 45 semester hours in Groups IV and V combined with a minimum of 10 hours in each.
  - 4/ In Option III, T.A.M. 150 and 211 may be counted toward Group V.
- 126 hours, including military and excluding P.E., are required for the degree as outlined above. To enroll in this curriculum, freshmen must rank in the upper half of their high school graduating class; transfer students must have an average of 3.5 or higher. A minimum average of 3.5 is required for graduation.

# UNITED STATES DEPARTMENT OF AGRICULTURE OFFICE OF THE SECRETARY (For Report of the Secretary)

Office of the Secretary  
 United States Department of Agriculture

Name of the person or persons to whom the report is made	Rank or position	Office or position
John A. Smith, Secretary of the Board of Agriculture, State of New York	Secretary	New York, N. Y.
John B. Jones, Secretary of the Board of Agriculture, State of New York	Secretary	New York, N. Y.
John C. Brown, Secretary of the Board of Agriculture, State of New York	Secretary	New York, N. Y.
John D. White, Secretary of the Board of Agriculture, State of New York	Secretary	New York, N. Y.

Report of the Secretary of the Board of Agriculture, State of New York, for the year 1900.

The Board of Agriculture, State of New York, was organized on January 1, 1900, and has since that time been engaged in the study and collection of facts relating to the agriculture of the State. The Board has held numerous public hearings, and has received many suggestions from farmers and other interested parties. The Board has also conducted extensive investigations into the various problems connected with the agriculture of the State, and has prepared numerous reports and publications. The Board has also been successful in securing the enactment of many laws and resolutions which are of great benefit to the farmers of the State.

The Board has also been successful in securing the enactment of many laws and resolutions which are of great benefit to the farmers of the State. The Board has also been successful in securing the enactment of many laws and resolutions which are of great benefit to the farmers of the State.



## Six-Year Program in Agriculture and Law

A plan exists between the College of Agriculture and the College of Law by which a student may earn the degree of Bachelor of Science in Agriculture and the degree of Bachelor of Laws in six years. In this case the student must plan carefully so as to include all prescribed courses in agriculture during the first three years, after which he transfers to the College of Law for the fourth year. He may thus receive the agricultural degree at the end of the fourth year and the law degree at the end of the sixth year. This program can best be fitted into the Agricultural Science Curriculum under Option II.

The following listing of courses is intended as a guide. Other courses may be substituted in some cases for those listed here; however, completion of the courses as shown will assure that the student meets all requirements for the degree in the Agricultural Science Curriculum, Option II (see page 42). Students following this program should ask to be assigned an adviser for the six-year program in agriculture and law.

### SUGGESTED AGRICULTURAL SCIENCE PRE-LAW CURRICULUM (for the degree, Bachelor of Science in Agriculture)

(Six semesters in agriculture--six semesters in law)

#### A. Required courses

Rhetoric	6	
Military	4	
Physical Education	(4)	
		10

#### B. Suggested courses to meet requirements of 35 hours in agriculture (Group I)

Agriculture 100 (required of all freshmen)	0
Agricultural Economics 100, 220, 230, 302	12
Agricultural Engineering 111	3
Agronomy 121 and 201	9
Animal Science 100, 102	6
Dairy Science 100	3
Horticulture 100	3

(Students interested in Agricultural Economics 200--Special Problems in Agricultural Law, should consult with their adviser.)

#### C. Suggested courses to meet requirements of 44 hours from Groups II through V (Minimum of 6 hours in Groups II and IV; minimum of 16 hours in Groups III and V)

##### Group II Courses

Philosophy 102 or 104	3 to 4
Humanities electives	2 to 3

6

and International Law

The following is a list of the principal authorities on the subject of International Law, as far as the United States is concerned. The list is arranged in alphabetical order of the author's name. The list is not intended to be exhaustive, but it is believed to contain the principal authorities on the subject.

The following is a list of the principal authorities on the subject of International Law, as far as the United States is concerned. The list is arranged in alphabetical order of the author's name. The list is not intended to be exhaustive, but it is believed to contain the principal authorities on the subject.

THE UNIVERSITY OF CHICAGO PRESS  
545 EAST 57TH STREET  
CHICAGO, ILL. 60637

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THE UNIVERSITY OF CHICAGO PRESS

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## SUGGESTED AGRICULTURAL SCIENCE PRE-LAW CURRICULUM--Continued

## Group III

Economics 108, 109, and Finance 250 (8 hours required)	9	
Political Science 150	3	
Psychology 100	4	16

## Group IV Courses - two of the following

Zoology 104, or Botany 100, or Entomology 101		7 or 8
---	--	--------

## Group V Courses

Chemistry 101 or 111, and 132		
Geology 101 or 105, and 140		
Math. Electives		
Physics 101 and 102		16

D. Suggested Open Electives

Speech 101	3	
Accountancy 201	3	
		<u>6</u>

Total hours in three years. . . . .	96
Law courses to complete requirement for degree. . . . .	30
Total Required for Degree in Agriculture. . . . .	<u>126</u>

NOTE: The 96 hours would be completed during the six semesters in agriculture. Completion of at least 30 hours in law school during the fourth year would qualify the student for graduation from the College of Agriculture. To remain in and graduate from this curriculum, each student must maintain an over-all average of at least 3.5, including courses taken in the College of Law and counted toward the completion of this degree.



THE JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION  
PUBLISHED WEEKLY  
CHICAGO, ILL., MAY 11, 1922

THE JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION  
PUBLISHED WEEKLY  
CHICAGO, ILL., MAY 11, 1922

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PUBLISHED WEEKLY  
CHICAGO, ILL., MAY 11, 1922

**DAIRY TECHNOLOGY CURRICULUM**  
(for the degree of Bachelor of Science in Dairy Technology)

The following program is designed for students interested in the business aspects of dairy manufacturing or in research or teaching in the field of dairy technology. A minimum of 126 hours of credit, excluding P.E., is required for graduation. All students specializing in dairy technology are expected to take an inspection trip in either the junior or the senior year. This trip costs about \$35.

<u>First Year</u>			
<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Agr. 100--Lect. for Freshmen	0	Chem. 105--Inorg. Chem. and Qualitative Analysis	5
Chem. 101 or 102--Gen. Chem.	5-3	Rhet. 102--Rhetoric and Comp.	3
D.S. 100--Introd. to Dairy Prod.	3	Speech 101--Prin. of Effective Speaking	3
Math. 111 or 112 <sup>1</sup> --Col. Algebra	5-3	Physical Education	(1)
Rhet. 101--Rhetoric and Comp.	3	Military (men)	1
Physical Education	(1)	Electives	3
Military (men)	1		
<b>Total</b>	<b>14-18</b>	<b>Total</b>	<b>16</b>
<u>Second Year</u>			
Chem. 133--Elem. Org. Chem.	5	Bact. 104--Elem. Bact., or Da.Sci. 150 and 151--Gen. Da. Bact.	5
D. T. 101--Introd. to Da. Tech.	3	D. T. 102--Quality Evaluation of Dairy Products	3
Econ. 108--Elements of Economics	3	Physical Education	(1)
Physical Education	(1)	Military (men)	1
Military (men)	1	Electives (Group I or II)	6
Elective (Group I or II)	3		
<b>Total</b>	<b>16</b>	<b>Total</b>	<b>16</b>
<u>Third Year</u>			
D.T. 211--Bacteriological Control of Dairy Plants	4	Accy. 201 <sup>2</sup> --Fund. of Account.	3
Rhet. 151--Bus. Letter Writing	3	D.T. 213--Tech. Control of Dairy Products	3
Electives (Groups I and II)	9	D.T. 310--Dairy Prod. Proc.	4
		Electives (Groups I and II)	6
<b>Total</b>	<b>16</b>	<b>Total</b>	<b>16</b>
<u>Fourth Year</u>			
D.T. 311--Dairy Prod. Proc.	4	Electives	17
Electives	12		
<b>Total</b>	<b>16</b>	<b>Total</b>	<b>17</b>

- 1/ Students who pass the mathematics placement test are not required to take a mathematics course; all others must take either Math. 111 or Math. 112.
- 2/ Students interested in business management should take Accy. 101 and 105.

# CHART SUMMARY

For the purpose of this chart, the following definitions apply:

The chart is designed to show the relative importance of the various factors in the total cost of the project. The chart is divided into four main categories: (1) Materials, (2) Labor, (3) Overhead, and (4) Profit. Each category is further subdivided into specific items, and the relative importance of each item is indicated by the size of the area it occupies in the chart.

Category	Subcategory	Value	Percentage
Materials	Steel	100	100%
	Concrete	50	50%
	Brick	20	20%
	Wood	10	10%
	Paint	5	5%
	Roofing	5	5%
	Insulation	5	5%
	Plumbing	5	5%
	Electrical	5	5%
	Other	5	5%
Labor	General	100	100%
	Skilled	50	50%
	Unskilled	20	20%
	Supervision	10	10%
	Transportation	5	5%
	Communication	5	5%
	Food	5	5%
	Shelter	5	5%
	Health	5	5%
	Other	5	5%
Overhead	General	100	100%
	Skilled	50	50%
	Unskilled	20	20%
	Supervision	10	10%
	Transportation	5	5%
	Communication	5	5%
	Food	5	5%
	Shelter	5	5%
	Health	5	5%
	Other	5	5%
Profit	General	100	100%
	Skilled	50	50%
	Unskilled	20	20%
	Supervision	10	10%
	Transportation	5	5%
	Communication	5	5%
	Food	5	5%
	Shelter	5	5%
	Health	5	5%
	Other	5	5%

Category	Subcategory	Value	Percentage
Materials	Steel	100	100%
	Concrete	50	50%
	Brick	20	20%
	Wood	10	10%
	Paint	5	5%
	Roofing	5	5%
	Insulation	5	5%
	Plumbing	5	5%
	Electrical	5	5%
	Other	5	5%
Labor	General	100	100%
	Skilled	50	50%
	Unskilled	20	20%
	Supervision	10	10%
	Transportation	5	5%
	Communication	5	5%
	Food	5	5%
	Shelter	5	5%
	Health	5	5%
	Other	5	5%
Overhead	General	100	100%
	Skilled	50	50%
	Unskilled	20	20%
	Supervision	10	10%
	Transportation	5	5%
	Communication	5	5%
	Food	5	5%
	Shelter	5	5%
	Health	5	5%
	Other	5	5%
Profit	General	100	100%
	Skilled	50	50%
	Unskilled	20	20%
	Supervision	10	10%
	Transportation	5	5%
	Communication	5	5%
	Food	5	5%
	Shelter	5	5%
	Health	5	5%
	Other	5	5%

Category	Subcategory	Value	Percentage
Materials	Steel	100	100%
	Concrete	50	50%
	Brick	20	20%
	Wood	10	10%
	Paint	5	5%
	Roofing	5	5%
	Insulation	5	5%
	Plumbing	5	5%
	Electrical	5	5%
	Other	5	5%
Labor	General	100	100%
	Skilled	50	50%
	Unskilled	20	20%
	Supervision	10	10%
	Transportation	5	5%
	Communication	5	5%
	Food	5	5%
	Shelter	5	5%
	Health	5	5%
	Other	5	5%
Overhead	General	100	100%
	Skilled	50	50%
	Unskilled	20	20%
	Supervision	10	10%
	Transportation	5	5%
	Communication	5	5%
	Food	5	5%
	Shelter	5	5%
	Health	5	5%
	Other	5	5%
Profit	General	100	100%
	Skilled	50	50%
	Unskilled	20	20%
	Supervision	10	10%
	Transportation	5	5%
	Communication	5	5%
	Food	5	5%
	Shelter	5	5%
	Health	5	5%
	Other	5	5%

Category	Subcategory	Value	Percentage
Materials	Steel	100	100%
	Concrete	50	50%
	Brick	20	20%
	Wood	10	10%
	Paint	5	5%
	Roofing	5	5%
	Insulation	5	5%
	Plumbing	5	5%
	Electrical	5	5%
	Other	5	5%
Labor	General	100	100%
	Skilled	50	50%
	Unskilled	20	20%
	Supervision	10	10%
	Transportation	5	5%
	Communication	5	5%
	Food	5	5%
	Shelter	5	5%
	Health	5	5%
	Other	5	5%
Overhead	General	100	100%
	Skilled	50	50%
	Unskilled	20	20%
	Supervision	10	10%
	Transportation	5	5%
	Communication	5	5%
	Food	5	5%
	Shelter	5	5%
	Health	5	5%
	Other	5	5%
Profit	General	100	100%
	Skilled	50	50%
	Unskilled	20	20%
	Supervision	10	10%
	Transportation	5	5%
	Communication	5	5%
	Food	5	5%
	Shelter	5	5%
	Health	5	5%
	Other	5	5%

The chart is designed to show the relative importance of the various factors in the total cost of the project. The chart is divided into four main categories: (1) Materials, (2) Labor, (3) Overhead, and (4) Profit. Each category is further subdivided into specific items, and the relative importance of each item is indicated by the size of the area it occupies in the chart.



## DAIRY TECHNOLOGY CURRICULUM--Continued

Group I electives: A minimum of 15 hours, at least 6 of which must be in courses above the 100 level, to be selected from science (bacteriology, chemistry, mathematics, and physics) or commerce (accountancy, business law, economics<sup>1/</sup>, finance<sup>1/</sup>, management, and marketing).

Group II electives: A minimum of nine hours in humanities and social sciences, to be selected from anthropology, art, economics<sup>1/</sup>, finance<sup>1/</sup>, foreign language, geography, history, landscape architecture, literature, music, philosophy, political science, psychology, religion, sociology, or speech.

Electives in the third and fourth years, chosen with the assistance of an adviser, can provide a background of general business training, a special knowledge of some business field, or a basis for graduate work in preparation for research.

<sup>1/</sup> Students who select economics or finance courses in fulfillment of Group I or II may not count the same course in both groups.

# THEORY OF THE EARTH AND ITS HISTORY

Chapter I. General Principles. The earth is a sphere, and its surface is covered by water. The land is divided into continents, islands, and archipelagos. The water is divided into oceans, seas, and bays. The atmosphere is the layer of gas that surrounds the earth. The climate is the average weather conditions of a place. The geology is the study of the earth's structure and history.

Chapter II. The Earth's Structure. The earth is composed of several layers. The outermost layer is the crust. Below the crust is the mantle. At the center of the earth is the core. The crust is divided into plates. The plates move and interact with each other. The mantle is divided into the upper mantle and the lower mantle. The core is divided into the outer core and the inner core.

Chapter III. The Earth's History. The earth has a long history. It was formed about 4.5 billion years ago. The first life appeared about 3.5 billion years ago. The earth has gone through several periods of glaciation and interglaciation. The earth's climate has changed many times. The earth's geology has changed many times. The earth's history is still being studied.

Chapter IV. The Earth's Future. The earth's future is uncertain. It may continue to exist for billions of years. It may be destroyed by a meteorite impact. It may be destroyed by a supernova. The earth's future is still being studied.

NAME \_\_\_\_\_  
DATE \_\_\_\_\_

PREScribed COURSES	CREDIT	GRADE	Group I--A minimum of 15 hours is required from science (bact., chem., math., and physics or commerce (accy., bus. law., econ. <u>2</u> /, fin. <u>2</u> /, mgmt., and mktg.). At least 6 of the 15 hours must be above the 100 level.		
Agric. 100	0				
Accy. 201 or Accy 101 <u>and</u> 105 <u>1</u> /	3 3-3				
Bact. 104 or Da. Sci. 150 <u>and</u> 151	5 2-3				EARNED
Chem. 101 or 102	5-3				
Chem. 105	5				TO BE
Chem. 133	5				EARNED
Da. Sci. 100	3				
Da. Tech. 101	3				
Da. Tech. 102	3				
Da. Tech. 211	4				
Da. Tech. 213	3				
Da. Tech. 310	4				
Da. Tech. 311	4				
Econ. 108	3				
Math. 111 or 112 or Math. Placement Test	5-3				
Rhet. 101	3				
Rhet. 102	3				
Rhet. 151	3				
Speech 101	3				
Military	1				
Military	1				
Military	1				
Military	1				
P.E.	(1)				
P.E.	(1)				
P.E.	(1)				
P.E.	(1)				

126 hours, including military and excluding physical education, are required for the degree as outlined above. A minimum average of 3.0 is required for graduation. Effective Aug. 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at the U. of I. and a combined average of 3.0 for transfer and U. of I. work.

1/ Students interested in business management should take Accy. 101 and 105.

2/ Students who select economics or finance courses in fulfillment of Group I or II may not count the same course in both groups.



# (THE OFFICE OF THE ATTORNEY GENERAL)

OFFICE OF THE ATTORNEY GENERAL  
WASHINGTON, D. C.

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FRANK T. EVANS		9876 Willow St.		Indianapolis		Indiana		Marion		46201	
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JULIUS H. COOPER		6543 Magnolia St.		San Jose		California		Santa Clara		95101	
LEONARD B. REED		10987 Dogwood St.		Jacksonville		Florida		Duval		32201	
NORMAN D. BAKER		4321 Redwood St.		Fort Worth		Texas		Tarrant		76101	
ALVIN F. HAYES		7654 Cypress St.		El Paso		Texas		El Paso		79901	
GEOFFREY L. MYERS		2987 Juniper St.		Little Rock		Arkansas		Pulaski		72201	
HARVEY K. FOSTER		6210 Fir St.		Birmingham		Alabama		Jefferson		35201	
WALTER M. JONES		9543 Gambel St.		Tulsa		Oklahoma		Tulsa		74101	
CLAYTON R. PETERSON		3876 Hawthorn St.		Omaha		Nebraska		Douglas		68101	
JAMES E. HARRIS		1234 Main St.		New York		New York		New York		10001	

THE OFFICE OF THE ATTORNEY GENERAL, U.S. DEPARTMENT OF JUSTICE, is pleased to announce the following information regarding the above-named individuals. The information is being provided for your information and is not to be used for any other purpose. The information is being provided for your information and is not to be used for any other purpose. The information is being provided for your information and is not to be used for any other purpose.

**FLORICULTURE CURRICULUM**  
(for the degree of Bachelor of Science in Floriculture)

This curriculum is for students preparing to grow and sell flowers and other ornamental plants or to do teaching and research in this field. Students registered in floriculture are required to make at least one inspection trip before graduation. The trip costs about \$30. Students contemplating graduate work in floriculture should register for the Chemistry 101 (102), Chemistry 105 and Chemistry 133 sequence, rather than the Chemistry 101 (102) or 111 and Chemistry 132 sequence. A minimum of 126 hours of credit is required for graduation.

First Year

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Agric. 100--Lect. for Freshmen	0	Chem. 132--Elementary Organic Chemistry <sup>1/</sup>	3
Botany 100--General Botany	4	Entom. 101--Agricultural Entomology	3
Chem. 101, 102 or 111--General Chemistry <sup>1/</sup>	5 or 3	Rhet. 102--Rhet. & Comp.	3
Hort. 121--Plant Propagation	3	Physical Education	(1)
Rhet. 101--Rhet. & Comp.	3	Military (men)	1
Physical Education	(1)	Electives	5 to 7
Military (men)	1	Total	16 to 18
Total	15 to 17		

Second Year

Accy. 101--Prin. of Accounting	3	Accy. 105--Accounting Procedure	3
Bot. 130--Plant Physiology	5	Agron. 201--Soils	5
Econ. 108--Elements of Econ.	3	Bot. 160--Introductory System-atic Botany	3
Geol. 105--Agricultural Geology	3	Hort. 122--Greenhouse Mgmt.	3
Physical Education	(1)	Physical Education	(1)
Military (men)	1	Military (men)	1
Electives	0 to 2	Electives	0 to 2
Total	16 to 18	Total	16 to 18

Third Year

Hort. 223--Commercial Flori-cultural Crops	3	Hort. 224--Commercial Flori-cultural Crops	3
Plant Path. 317--Plant Path.	4	Hort. 230--Garden Flowers <sup>2/</sup>	3
Hort. 321--Floricultural Physiology	3	Hort. 322--Plant Nutrition	3
Land. Arch. 251--Trees and Shrubs	3	Land. Arch. 252--Trees and Shrubs	3
Electives	3 to 5	Electives	3 to 6
Total	16 to 18	Total	15 to 18

<sup>1/</sup> See next page.

<sup>2/</sup> See next page.

The following is a list of the names of the persons who have been mentioned in the text of the book, in the order in which they are mentioned. The names are given in full, and are not abbreviated. The names are given in the order in which they are mentioned in the text of the book, and are not arranged alphabetically. The names are given in the order in which they are mentioned in the text of the book, and are not arranged alphabetically. The names are given in the order in which they are mentioned in the text of the book, and are not arranged alphabetically.

NAME	DATE OF BIRTH	DATE OF DEATH	PLACE OF BIRTH
John Adams	1735	1800	Boston, Massachusetts
Thomas Jefferson	1743	1826	Shadwell, Virginia
George Washington	1732	1799	Westmoreland County, Virginia
Benjamin Franklin	1706	1790	Boston, Massachusetts
James Madison	1751	1836	Port Conway, Virginia
Alexander Hamilton	1755	1804	New York City, New York
John Jay	1732	1829	New York City, New York
James Monroe	1758	1831	Westmoreland County, Virginia
Andrew Jackson	1767	1845	Waxhatch, North Carolina
Martin Van Buren	1781	1862	Kinderhook, New York

NAME	DATE OF BIRTH	DATE OF DEATH	PLACE OF BIRTH
William Henry Harrison	1773	1841	North Bend, Ohio
John Tyler	1790	1862	Greenwood, Virginia
James K. Polk	1795	1849	Savannah, Georgia
Zachary Taylor	1784	1850	Orange, Virginia
Franklin Pierce	1804	1879	New Hampshire
James Buchanan	1791	1868	Pennsylvania
Abraham Lincoln	1809	1865	Kentucky
Andrew Johnson	1794	1875	North Carolina

NAME	DATE OF BIRTH	DATE OF DEATH	PLACE OF BIRTH
Ulysses S. Grant	1822	1885	Point of View, Ohio
Rutherford B. Hayes	1827	1893	Delaware, Ohio
James A. Garfield	1829	1881	New Hampshire
Benjamin Harrison	1833	1901	North Bend, Ohio
Grover Cleveland	1837	1908	New York City, New York
William McKinley	1827	1901	Newburgh, New York
Theodore Roosevelt	1858	1900	New York City, New York
Woodrow Wilson	1856	1913	Virginia
Warren G. Harding	1874	1923	Ohio



Fourth Year

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Hort. 231--Floral Decorations	3	Hort. 226--Bedding & Foliage Plants <sup>2/</sup>	3
Electives	12 to 15	Hort. 232--Adv. Floral Decorations	3
		Land. Arch. 164--Apprec. of Landscape Architecture	3
		Electives	6 to 9
Total	15 to 18	Total	15 to 18

- 1/ Students who plan to take advanced chemistry (such as biochemistry) should take Chem. 101, 105, and 133 instead of Chem. 111 and 132.
- 2/ Given in alternate years only.

Group II--A minimum of four hours to be selected from anthropology, art, economics, finance, foreign language, geography, history, landscape architecture, literature, music, philosophy, political science, psychology, religion, sociology, or speech.

NOTE: The following courses are suggested as electives which may be taken during the second, third, or fourth year:

	<u>Hours</u>
Accy. 106--Elementary Cost Accounting (I, II)	3
Accy. 108--Intermediate Accounting (I, II)	3
Agr. 114--Agricultural Journalism (I, II)	3
Agron. 306--Fertilizers and Their Soil Reactions (I)	3
Art 185, 186--Design (I, II)	2-4
Bot. 322--Genetics (I)	4
Bus. Law 261--Summary of Business Law (I, II)	3
Entom. 319--Chemical Control of Insects (II)	4
Finance 250--Money, Credit, and Banking (I, II)	3
Hort. 110--Plant and Animal Genetics (I, II)	3
Hort. 201--Special Problems (I, II)	3-5
Hort. 242--Vegetable Crops Production (II)	3
Hort. 262--Tree and Small Fruit Culture (I)	3
Hort. 333--Marketing Horticulture Products (I)	3
Hort. 345--Growth and Development of Vegetable Crops (I, alternate years)	4
Hort. 382--Improvement of Horticulture Crops by Breeding (II, alternate years)	3
Marketing 101--Principles of Marketing (I, II)	3
Marketing 211--Principles of Retailing (I, II)	3
Marketing 271--Salesmanship (I, II)	2
Marketing 281--Introduction to Advertising (I, II)	3
Rhet. 151--Business Letter Writing (I, II)	3

Table 1

Year	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Population	1,000,000	1,050,000	1,100,000	1,150,000	1,200,000	1,250,000	1,300,000	1,350,000	1,400,000	1,450,000	1,500,000
Area	100,000	105,000	110,000	115,000	120,000	125,000	130,000	135,000	140,000	145,000	150,000
Population Density	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15

The following table shows the population density in persons per square mile for the years 1950 to 1960. The population density is calculated by dividing the population by the area.

The population density is calculated by dividing the population by the area. The population density is calculated by dividing the population by the area. The population density is calculated by dividing the population by the area.

Table 2

1950	1,000,000	100,000	10
1951	1,050,000	105,000	10.5
1952	1,100,000	110,000	11
1953	1,150,000	115,000	11.5
1954	1,200,000	120,000	12
1955	1,250,000	125,000	12.5
1956	1,300,000	130,000	13
1957	1,350,000	135,000	13.5
1958	1,400,000	140,000	14
1959	1,450,000	145,000	14.5
1960	1,500,000	150,000	15

UNIVERSITY OF ILLINOIS  
CURRICULUM IN FLORICULTURE

55.

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_  
DATE \_\_\_\_\_

PREScribed COURSES	CREDIT	GRADE	Group II--Minimum of 4 hours selected from anthro., art, econ., fin., for. lang., geog., hist., land. arch., lit., music, phil., pol. sci., psych., religion, soc., or speech	CREDIT	GRADE	SUMMARY
Accy. 101	3					EARNED:
Accy. 105	3					
Agric. 100	0					TO BE
Agron. 201	5					EARNED:
Bot. 100	4					
Bot. 130	5					
Bot. 160	3					
Chem 101, 102 or 111	5-3					
Chem. 132	3					
			OPEN ELECTIVES			TOTAL HOURS
Econ. 108	3					EARNED:
Entom. 101	3					
Geol. 105	3					
Hort. 121	3					
Hort. 122	3					
Hort. 223	3					
Hort. 224	3					
Hort. 226	3					
Hort. 230	3					
Hort. 231	3					
Hort. 232	3					
Hort. 321	3					
Hort. 322	3					
L. Arch. 164	3					
L. Arch. 251	3					
L. Arch. 252	3					
Pl. Path. 317	4					
Rhet. 101	3					
Rhet. 102	3					
Mil.-Mil.	1-1					
Mil.-Mil.	1-1					
P.E.	(1-1)					
P.E.	(1-1)					

126 hours, including military and excluding physical education, are required for the degree as outlined above. A minimum average of 3.0 is required for graduation. Effective August 1, 1956, the students who transfer credits must have a minimum average of 3.0 in all courses taken at U. of I. and combined average of 3.0 for transfer and J. of I. work.



10

**Abstract**

**FOOD TECHNOLOGY CURRICULUM**  
(for the degree, Bachelor of Science in Food Technology)

This program is designed for students who wish to prepare for employment as food production, quality control, research, or technical sales workers in governmental agencies, educational institutions, and such food-processing industries as canning, freezing, fermenting, milling and baking, vegetable oil processing, and confection manufacturing. A total of 130 hours of credit is required for graduation, exclusive of physical education and the first two years of military training. Students are strongly urged to engage in at least one summer of employment in selected food-processing industries and are required to go on a senior inspection trip of three days' duration. This trip costs about \$35.

First Year

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Agric. 100--Lect. for Freshmen	0	Botany 100--General Botany	4
Chem. 101 or 102--Gen. Chem.	5-3	Chem. 105--Inorganic Chemistry	
D.G.S. 111--Verbal Communication	4	and Qualitative Analysis	5
Math. 111--Algebra, or		D.G.S. 112--Verbal Communication	4
Math. 112--College Algebra <sup>1/</sup>	5-3	Math. 114--Plane Trigonometry <sup>1/</sup>	2
Physical Education	(1)	Physical Education	(1)
Military (men)	(1)	Military (men)	(1)
Electives	2-6		
<b>Total</b>	<b>16-18</b>	<b>Total</b>	<b>17</b>

Second Year

Chem. 122--Elem. Quan. Analysis	5	Chem. 133--Elem. Org. Chem.	5
Math. 122--Analytic Geometry <sup>1/</sup>	4	Math. 132--Calculus	5
Physics 101--General Physics		Physics 102--General Physics	
(Mechanics, Heat, and Sound)	5	(Light, Elec., and Magn.)	5
Physical Education	(1)	Physical Education	(1)
Military (men)	(1)	Military (men)	(1)
Electives	0-3	Electives	0-2
<b>Total</b>	<b>16-19</b>	<b>Total</b>	<b>17-19</b>

Third Year

Bact. 104--Elem. Bact.	5	Bact. 308--Food and Industrial	
Chem. 340--Elem. Phys. Chem. <sup>2/</sup>	3	Microbiology	5
Chem. 341--Elem. Phys. Chem. Lab. <sup>2/</sup>	1	Chem. 249--Chemistry of Colloids <sup>2/</sup>	3
F.T. 201--Elem. of Food Tech.	3	F.T. 202--Elements of Food Tech.	3
F.T. 260--Raw Materials for Proc.	4	Electives	6
Electives	0-3		
<b>Total</b>	<b>16-19</b>	<b>Total</b>	<b>17</b>

<sup>1/</sup> Students who pass the algebra portion of the mathematics placement test are exempt from the algebra requirement; those who pass both the algebra and trigonometry portions of this test may begin their college mathematics with analytic geometry.

<sup>2/</sup> Students adequately qualified may substitute Chem. 342 and 344 for Chem. 249 and 340-341.

# THE NATIONAL ACADEMY OF SCIENCES (For the purpose, National Academy of Sciences)

The purpose of the National Academy of Sciences is to promote the progress of science and to advise the government on matters of science and technology. The Academy is composed of members who are elected by their peers and who are recognized for their contributions to the field of science. The Academy's work is carried out through various committees and commissions, which are responsible for conducting research and providing advice to the government. The Academy also publishes a journal, the *Proceedings of the National Academy of Sciences*, which contains the results of the Academy's research and the advice of its members. The Academy's work is funded by the government and by private foundations. The Academy's members are elected by their peers and are recognized for their contributions to the field of science. The Academy's work is carried out through various committees and commissions, which are responsible for conducting research and providing advice to the government. The Academy also publishes a journal, the *Proceedings of the National Academy of Sciences*, which contains the results of the Academy's research and the advice of its members. The Academy's work is funded by the government and by private foundations.

## First Year

First Year	Second Year	Third Year	Fourth Year
1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26	27	28
29	30	31	32
33	34	35	36
37	38	39	40
41	42	43	44
45	46	47	48
49	50	51	52
53	54	55	56
57	58	59	60
61	62	63	64
65	66	67	68
69	70	71	72
73	74	75	76
77	78	79	80
81	82	83	84
85	86	87	88
89	90	91	92
93	94	95	96
97	98	99	100

## Second Year

Second Year	Third Year	Fourth Year	Fifth Year
1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26	27	28
29	30	31	32
33	34	35	36
37	38	39	40
41	42	43	44
45	46	47	48
49	50	51	52
53	54	55	56
57	58	59	60
61	62	63	64
65	66	67	68
69	70	71	72
73	74	75	76
77	78	79	80
81	82	83	84
85	86	87	88
89	90	91	92
93	94	95	96
97	98	99	100

## Third Year

Third Year	Fourth Year	Fifth Year	Sixth Year
1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26	27	28
29	30	31	32
33	34	35	36
37	38	39	40
41	42	43	44
45	46	47	48
49	50	51	52
53	54	55	56
57	58	59	60
61	62	63	64
65	66	67	68
69	70	71	72
73	74	75	76
77	78	79	80
81	82	83	84
85	86	87	88
89	90	91	92
93	94	95	96
97	98	99	100

The National Academy of Sciences is a private, non-profit organization that is dedicated to the advancement of science and technology. The Academy is composed of members who are elected by their peers and who are recognized for their contributions to the field of science. The Academy's work is carried out through various committees and commissions, which are responsible for conducting research and providing advice to the government. The Academy also publishes a journal, the *Proceedings of the National Academy of Sciences*, which contains the results of the Academy's research and the advice of its members. The Academy's work is funded by the government and by private foundations. The Academy's members are elected by their peers and are recognized for their contributions to the field of science. The Academy's work is carried out through various committees and commissions, which are responsible for conducting research and providing advice to the government. The Academy also publishes a journal, the *Proceedings of the National Academy of Sciences*, which contains the results of the Academy's research and the advice of its members. The Academy's work is funded by the government and by private foundations.



Fourth Year

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Chem. 354--Introd. to Biochem.		Chem. 329--Food Analysis	5
or Chem. 350 <u>and</u> 355--General Biochemistry	5-6	F. T. 206--Inspection Trip	0
F. T. 301--Food Processing	4	F. T. 302--Food Processing	4
F. T. 363--Introd. to Process		F. T. 332--Principles of Sanitation in the Processing and Handling of Foods	2
Engr.	3	Electives	5
Electives	<u>3-4</u>	Total	<u>16</u>
Total	<u>16</u>		

Humanities and Social Science Electives

A minimum of 15 hours must be selected from courses in anthropology, art, economics, finance, foreign language, geography, history, landscape architecture, literature, music, philosophy, political science, psychology, religion, sociology, or speech. Social science courses offered by the Division of General Studies may be used to satisfy this requirement. Students contemplating continuation of their studies for an advanced degree are advised to elect one of the foreign languages.

1900

Received 17 November 1998; accepted 10 February 1999

[illegible]

CURRICULUM IN FOOD TECHNOLOGY  
(for the Degree, Bachelor of Science in Food Technology)

58.

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_  
DATE \_\_\_\_\_

PREScribed COURSES:	HOURS	GRADE	HUMANITIES AND SOCIAL SCIENCES--	
Agric. 100	0		A minimum of 15 semester hours from:	
Bact. 104	5		anthro., art, econ, fin., for. lang.,	
Bact. 308	5		geog., hist., land. arch., lit.,	
			music, phil., pol. sci., psych.,	
Botany 100	4		religion, soc., and speech	Earned:
Chem. 101 or 102	5-3			
Chem. 105	5			
Chem. 122	5			
Chem. 133	5			To be
Chem. 249 <sup>1</sup> / <sub>2</sub>	3			earned:
Chem. 329	5			
Chem. 340-341 <sup>1</sup> / <sub>2</sub>	3-1			
Chem. 354 or	5			
Chem. 350 and 355	6			
D.G.S. 111 <sup>2</sup> / <sub>2</sub>	4			
D.G.S. 112 <sup>2</sup> / <sub>2</sub>	4			
F. T. 201	3		OPEN ELECTIVES	
F. T. 202	3			
F. T. 206	0			
F. T. 260	4			TOTAL
F. T. 301	4			HOURS
F. T. 302	4			
F. T. 332	2			
F. T. 363	3			
Math. Placement Test or				
Math. 111 or 112	5-3			
Math. 114	2			
Math. 122	4			
Math. 132	5			
Physics 101	5			
Physics 102	5			
Mil.-Mil.	(1-1)			
Mil.-Mil.	(1-1)			
P.E.-P.E.	(1-1)			
P.E.-P.E.	(1-1)			

1/ Students adequately qualified may substitute Chem. 342 and 344, Physical Chemistry for Chem. 249 and 340-341.

2/ Rhetoric 101, 102, and Speech 101 may be substituted for D.G.S. 111 and 112.

130 hours, exclusive of regular military and P.E. are required for the degree. A minimum average of 3.0 is required for graduation. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at the U. of I. and a combined average of 3.0 for transfer and U. of I. work.



RESEARCH REPORT ON THE EFFECTS OF  
 A. B. C. D. E. F. G. H. I. J. K. L. M. N. O. P. Q. R. S. T. U. V. W. X. Y. Z.

RESEARCH REPORT ON THE EFFECTS OF			A. B. C. D. E. F. G. H. I. J. K. L. M. N. O. P. Q. R. S. T. U. V. W. X. Y. Z.		
RESEARCH REPORT ON THE EFFECTS OF	A. B. C. D. E. F. G. H. I. J. K. L. M. N. O. P. Q. R. S. T. U. V. W. X. Y. Z.	RESEARCH REPORT ON THE EFFECTS OF	A. B. C. D. E. F. G. H. I. J. K. L. M. N. O. P. Q. R. S. T. U. V. W. X. Y. Z.	RESEARCH REPORT ON THE EFFECTS OF	A. B. C. D. E. F. G. H. I. J. K. L. M. N. O. P. Q. R. S. T. U. V. W. X. Y. Z.
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RESEARCH REPORT ON THE EFFECTS OF  
 A. B. C. D. E. F. G. H. I. J. K. L. M. N. O. P. Q. R. S. T. U. V. W. X. Y. Z.

**FOREST PRODUCTION CURRICULUM**  
(for the degree of B.S. in Forestry)

The curriculum in forest production prepares students for various activities in the establishment, protection, management, and utilization of timber crops and forested lands. Graduates are qualified for employment by public agencies or in private industry. A summer camp of eight weeks is required for all students. This should come between the second and third years. Most of the instruction is given at Camp Rabideau, Blackduck, Minnesota.

First Year

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Agric. 100--Lect. for Freshmen	0	Chem. 101 or 102--General Chemistry	5-3
Botany 100--General Botany	4	G.E. 101--Engineering Drawing	3
Forestry 101--General Forestry	3	Math. 114--Plane Trigonometry <sup>1/</sup>	2
Math. 111 or 112--Algebra <sup>1/</sup>	5-3	Rhet. 102--Rhetoric and Composition	3
Rhet. 101--Rhetoric and Composition	3	Speech 101--Principles of Effective	
Physical Education	(1)	Speaking	3
Military (men)	1	Physical Education	(1)
		Military (men)	1
<b>Total</b>	<b>15-17</b>	<b>Total</b>	<b>16-18</b>

Second Year

Forestry 111--Dendrology I	2	Forestry 112--Dendrology II	2
Civil Eng. 215--General Surveying	3	Chem. 132--Elementary Organic	
Geol. 105--Agricultural Geology	3	Chemistry	3
Physics 101--General Physics		Physics 102--General Physics	
(Mechanics, Heat, and Sound)	5	(Light, Electricity, and Magnetism)	5
Econ. 108--Elements of Economics	3	Zoology 104--Elementary Zoology	4
Physical Education	(1)	Physical Education	(1)
Military (men)	1	Military (men)	1
		Elective	0-3
<b>Total</b>	<b>18</b>	<b>Total</b>	<b>16-19</b>

Summer Camp

Eight Weeks in Summer Following Sophomore Year

<u>Course</u>	<u>Subject</u>	<u>Hours</u>
Forestry 211--Introduction to Silvics and Silviculture		3
Forestry 221--Forest Mensuration		3
Forestry 231--Introduction to Wood Utilization		2
<b>Total</b>		<b>8</b>

<sup>1/</sup> Students who pass the algebra portion of the mathematics placement test are exempt from the algebra requirement; those who pass both the algebra and trigonometry portion of this test are exempt from both subjects. Students who are exempt from mathematics should choose other courses from the list of recommended electives.





Third Year

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Forestry 212--Foundations of Silviculture	4	Forestry 214--Seeding and Planting	2
Forestry 222--Advanced Forest Mensuration	3	Forestry 232--Logging and Milling	3
Botany 130--Plant Physiology	5	Forestry 233--Forest Products and Industries	3
Forestry 263--Control of Forest Pests and Hazards	3	Forestry 261--Forest Fire Control and Use	2
Humanities or Social Sciences <sup>1/</sup>	3	Forestry 271--Wood Anatomy and Identification	4
Total	18	Humanities or Social Sciences <sup>1/</sup>	3
		Total	17

Fourth Year

<u>First Semester<sup>2/</sup></u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Forestry 213--Practice of Silviculture	3	Forestry 252--Forest Valuation and Finance	3
Agron. 203--Forest Soils	5	Plant Path. 202--Forest Pathology	3
Forestry 241--Foundations of American Forest Management	3	Humanities or Social Sciences <sup>1/</sup>	6
Forestry 251--Forest Economics	3	Electives	6
Zoology 342--Wildlife Management and Conservation	3		
Total	17	Total	18

Recommended Electives

Agron. 110--Plant and Animal Genetics	3
Botany 160--Introductory Plant Taxonomy	3
Forestry 272--Physical and Mechanical Properties of Wood	3
Forestry 229--Forest Aerial Photo Interpretation	3
C.E. 250--Hydrology	3
Rhet. 151--Business Letter Writing	3
Bus. Law 261--Summary of Business Law	3
Geog. 211--Agricultural Climatology	3

A minimum of 140 hours of credit, excluding Physical Education and including 8 credit hours earned in Summer Camp, are required for graduation.

<sup>1/</sup> Humanities and Social Sciences: A minimum of 12 hours in addition to Speech 101 and Econ. 108 are required from anthro., art, econ., fin., for.lang., geog., hist., land. arch., lit., music, philos., pol. sci., psych., religion, sociol., and speech.

<sup>2/</sup> The work of this semester will be arranged so that several extended field trips may be taken in the first half of the semester.

Year	Number of Cases	Number of Deaths	Number of Recoveries
1917	1,000	100	900
1918	1,200	120	1,080
1919	1,100	110	990
1920	1,300	130	1,170
1921	1,400	140	1,260
1922	1,500	150	1,350
1923	1,600	160	1,440
1924	1,700	170	1,530
1925	1,800	180	1,620
1926	1,900	190	1,710
1927	2,000	200	1,800
1928	2,100	210	1,890
1929	2,200	220	1,980
1930	2,300	230	2,070
1931	2,400	240	2,160
1932	2,500	250	2,250
1933	2,600	260	2,340
1934	2,700	270	2,430
1935	2,800	280	2,520
1936	2,900	290	2,610
1937	3,000	300	2,700
1938	3,100	310	2,790
1939	3,200	320	2,880
1940	3,300	330	2,970
1941	3,400	340	3,060
1942	3,500	350	3,150
1943	3,600	360	3,240
1944	3,700	370	3,330
1945	3,800	380	3,420
1946	3,900	390	3,510
1947	4,000	400	3,600
1948	4,100	410	3,690
1949	4,200	420	3,780
1950	4,300	430	3,870
1951	4,400	440	3,960
1952	4,500	450	4,050
1953	4,600	460	4,140
1954	4,700	470	4,230
1955	4,800	480	4,320
1956	4,900	490	4,410
1957	5,000	500	4,500
1958	5,100	510	4,590
1959	5,200	520	4,680
1960	5,300	530	4,770
1961	5,400	540	4,860
1962	5,500	550	4,950
1963	5,600	560	5,040
1964	5,700	570	5,130
1965	5,800	580	5,220
1966	5,900	590	5,310
1967	6,000	600	5,400
1968	6,100	610	5,490
1969	6,200	620	5,580
1970	6,300	630	5,670
1971	6,400	640	5,760
1972	6,500	650	5,850
1973	6,600	660	5,940
1974	6,700	670	6,030
1975	6,800	680	6,120
1976	6,900	690	6,210
1977	7,000	700	6,300
1978	7,100	710	6,390
1979	7,200	720	6,480
1980	7,300	730	6,570
1981	7,400	740	6,660
1982	7,500	750	6,750
1983	7,600	760	6,840
1984	7,700	770	6,930
1985	7,800	780	7,020
1986	7,900	790	7,110
1987	8,000	800	7,200
1988	8,100	810	7,290
1989	8,200	820	7,380
1990	8,300	830	7,470
1991	8,400	840	7,560
1992	8,500	850	7,650
1993	8,600	860	7,740
1994	8,700	870	7,830
1995	8,800	880	7,920
1996	8,900	890	8,010
1997	9,000	900	8,100
1998	9,100	910	8,190
1999	9,200	920	8,280
2000	9,300	930	8,370
2001	9,400	940	8,460
2002	9,500	950	8,550
2003	9,600	960	8,640
2004	9,700	970	8,730
2005	9,800	980	8,820
2006	9,900	990	8,910
2007	10,000	1,000	9,000
2008	10,100	1,010	9,090
2009	10,200	1,020	9,180
2010	10,300	1,030	9,270
2011	10,400	1,040	9,360
2012	10,500	1,050	9,450
2013	10,600	1,060	9,540
2014	10,700	1,070	9,630
2015	10,800	1,080	9,720
2016	10,900	1,090	9,810
2017	11,000	1,100	9,900
2018	11,100	1,110	9,990
2019	11,200	1,120	10,080
2020	11,300	1,130	10,170
2021	11,400	1,140	10,260
2022	11,500	1,150	10,350
2023	11,600	1,160	10,440
2024	11,700	1,170	10,530
2025	11,800	1,180	10,620
2026	11,900	1,190	10,710
2027	12,000	1,200	10,800
2028	12,100	1,210	10,890
2029	12,200	1,220	10,980
2030	12,300	1,230	11,070
2031	12,400	1,240	11,160
2032	12,500	1,250	11,250
2033	12,600	1,260	11,340
2034	12,700	1,270	11,430
2035	12,800	1,280	11,520
2036	12,900	1,290	11,610
2037	13,000	1,300	11,700
2038	13,100	1,310	11,790
2039	13,200	1,320	11,880
2040	13,300	1,330	11,970
2041	13,400	1,340	12,060
2042	13,500	1,350	12,150
2043	13,600	1,360	12,240
2044	13,700	1,370	12,330
2045	13,800	1,380	12,420
2046	13,900	1,390	12,510
2047	14,000	1,400	12,600
2048	14,100	1,410	12,690
2049	14,200	1,420	12,780
2050	14,300	1,430	12,870
2051	14,400	1,440	12,960
2052	14,500	1,450	13,050
2053	14,600	1,460	13,140
2054	14,700	1,470	13,230
2055	14,800	1,480	13,320
2056	14,900	1,490	13,410
2057	15,000	1,500	13,500
2058	15,100	1,510	13,590
2059	15,200	1,520	13,680
2060	15,300	1,530	13,770
2061	15,400	1,540	13,860
2062	15,500	1,550	13,950
2063	15,600	1,560	14,040
2064	15,700	1,570	14,130
2065	15,800	1,580	14,220
2066	15,900	1,590	14,310
2067	16,000	1,600	14,400
2068	16,100	1,610	14,490
2069	16,200	1,620	14,580
2070	16,300	1,630	14,670
2071	16,400	1,640	14,760
2072	16,500	1,650	14,850
2073	16,600	1,660	14,940
2074	16,700	1,670	15,030
2075	16,800	1,680	15,120
2076	16,900	1,690	15,210
2077	17,000	1,700	15,300
2078	17,100	1,710	15,390
2079	17,200	1,720	15,480
2080	17,300	1,730	15,570
2081	17,400	1,740	15,660
2082	17,500	1,750	15,750
2083	17,600	1,760	15,840
2084	17,700	1,770	15,930
2085	17,800	1,780	16,020
2086	17,900	1,790	16,110
2087	18,000	1,800	16,200
2088	18,100	1,810	16,290
2089	18,200	1,820	16,380
2090	18,300	1,830	16,470
2091	18,400	1,840	16,560
2092	18,500	1,850	16,650
2093	18,600	1,860	16,740
2094	18,700	1,870	16,830
2095	18,800	1,880	16,920
2096	18,900	1,890	17,010
2097	19,000	1,900	17,100
2098	19,100	1,910	17,190
2099	19,200	1,920	17,280
2100	19,300	1,930	17,370
2101	19,400	1,940	17,460
2102	19,500	1,950	17,550
2103	19,600	1,960	17,640
2104	19,700	1,970	17,730
2105	19,800	1,980	17,820
2106	19,900	1,990	17,910
2107	20,000	2,000	18,000
2108	20,100	2,010	18,090
2109	20,200	2,020	18,180
2110	20,300	2,030	18,270
2111	20,400	2,040	18,360
2112	20,500	2,050	18,450
2113	20,600	2,060	18,540
2114	20,700	2,070	18,630
2115	20,800	2,080	18,720
2116	20,900	2,090	18,810
2117	21,000	2,100	18,900
2118	21,100	2,110	18,990
2119	21,200	2,120	19,080
2120	21,300	2,130	19,170
2121	21,400	2,140	19,260
2122	21,500	2,150	19,350
2123	21,600	2,160	19,440
2124	21,700	2,170	19,530
2125	21,800	2,180	19,620
2126	21,900	2,190	19,710
2127	22,000	2,200	19,800
2128	22,100	2,210	19,890
2129	22,200	2,220	19,980
2130	22,300	2,230	20,070
2131	22,400	2,240	20,160
2132	22,500	2,250	20,250
2133	22,600	2,260	20,340
2134	22,700	2,270	20,430
2135	22,800	2,280	20,520
2136	22,900	2,290	20,610
2137	23,000	2,300	20,700
2138	23,100	2,310	20,790
2139	23,200	2,320	20,880
2140	23,300	2,330	20,970
2141	23,400	2,340	21,060
2142	23,500	2,350	21,150
2143	23,600	2,360	21,240
2144	23,700	2,370	21,330
2145	23,800	2,380	21,420
2146	23,900	2,390	21,510
2147	24,000	2,400	21,600
2148	24,100	2,410	21,690
2149	24,200	2,420	21,780
2150	24,300	2,430	21,870
2151	24,400	2,440	21,960
2152	24,500	2,450	22,050
2153	24,600	2,460	22,140
2154	24,700	2,470	22,230
2155	24,800	2,480	22,320
2156	24,900	2,490	22,410
2157	25,000	2,500	22,500
2158	25,100	2,510	22,590
2159	25,200	2,520	22,680
2160	25,300	2,530	22,770
2161	25,400	2,540	22,860
2162	25,500	2,550	22,950
2163	25,600	2,560	23,040
2164	25,700	2,570	23,130
2165	25,800	2,580	23,220
2166	25,900	2,590	23,310
2167	26,000	2,600	23,400
2168	26,100	2,610	23,490
2169	26,200	2,620	23,580
2170	26,300	2,630	23,670
2171	26,400	2,640	23,760
2172	26,500	2,650	23,850
2173	26,600	2,660	23,940
2174	26,700	2,670	24,030
2175	26,800	2,680	24,120
2176	26,900	2,690	24,210
2177	27,000	2,700	24,300
2178	27,100	2,710	24,390
2179	27,200	2,720	24,480
2180	27,300	2,730	24,570
2181	27,400	2,740	24,660
2182	27,500	2,750	24,750
2183	27,600	2,760	24,840
2184	27,700	2,770	24,930
2185	27,800	2,780	25,020
2186	27,900	2,790	25,110
2187	28,000	2,800	25,200
2188	28,100	2,810	25,290
2189	28,200	2,820	25,380
2190	28,300	2,830	25,470
2191	28,400	2,840	25,560
2192	28,500	2,850	25,650
2193	28,600	2,860	25,740
2194	28,700	2,870	25,830
2195	28,800	2,880	25,920
2196	28,900	2,890	26,010
2197	29,000	2,900	26,100
2198	29,100	2,910	26,190
2199	29,200	2,920	

1992

1. The first of these is the fact that the  
2. second is the fact that the  
3. third is the fact that the  
4. fourth is the fact that the  
5. fifth is the fact that the  
6. sixth is the fact that the  
7. seventh is the fact that the  
8. eighth is the fact that the  
9. ninth is the fact that the  
10. tenth is the fact that the

100 copies of this book are being distributed to the following:

UNIVERSITY OF ILLINOIS  
CURRICULUM IN FOREST PRODUCTION  
(for degree of B.S. in Forestry)

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_

DATE \_\_\_\_\_

PREScribed COURSES	CREDIT	GRADE	PREScribed FORESTRY	CREDIT	GRADE
Agron. 203	5		For. 101	3	
Botany 100	4		For. 111	2	
Botany 130	5		For. 112	2	
			For. 211*	3	
Chem. 101 or 102	5-3		For. 212	4	
Chem. 132	3		For. 213	3	
			For. 214	2	
Civ. Eng. 215	3		For. 221*	3	
Econ. 108	3		For. 222	3	
			For. 231*	2	
Gen. Eng. 101	3		For. 232	3	
			For. 233	3	
Geology 105	3		For. 241	3	
			For. 251	3	
Math. Placement Test or			For. 252	3	
Math. 111 or 112	5-3		For. 261	2	
Math. 114	2		For. 263	3	
			For. 271	4	
Physics 101	5		HUMANITIES AND SOCIAL SCIENCES--A minimum of 12 hours from: anthro., art, econ., finance, for. lang., geog., hist., land.arch., lit., music, philos., pol. sci., psych., religion, sociol., or speech		
Physics 102	5				
Plant Path. 202	3				Earned:
Zoology 104	4				To be
Zoology 342	3				earned:
Rhet. 101	3				
Rhet. 102	3				
Speech 101	3				
Mil.-Mil.	1-1		OPEN ELECTIVES:		
Mil.-Mil.	1-1				
P.E.-P.E.	(1-1)				TOTAL HOURS
P.E.-P.E.	(1-1)				

140 hours of credit, excluding P.E. and including eight credit hours earned in summer camp\*, are required for graduation. A minimum of 3.0 is required for graduation. Effective August 1, 1956, the students who transfer credits must have a minimum average of 3.0 in all courses taken at U. of I. and combined average of 3.0 for transfer and U. of I. work.





CURRICULUM IN WOOD TECHNOLOGY AND UTILIZATION  
(for the degree of B.S. in Forestry)

The curriculum in wood technology and utilization prepares students to work with wood as a raw material. These scientists will enter positions which deal with the physical and mechanical properties of wood. They will be concerned with using wood in new and better ways, with the seasoning, manufacturing, purchase, sale, preservative or fire-retardant treatment, gluing, or finishing of wood. A minimum of ten weeks of non-credit summer industrial experience must be served with some wood-conversion or wood-using industry. This experience usually comes between the junior and senior years.

First Year

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Agric. 100--Lect. for Freshmen	0	Chem. 101 or 102--General Chemistry	5-3
Botany 100--General Botany	4	G.E. 101--Engineering Drawing	3
Forestry 101--General Forestry	3	Math. 114--Plane Trigonometry <sup>1/</sup>	2
Math. 111 or 112--Algebra <sup>1/</sup>	5-3	Rhet. 102--Rhetoric and Composition	3
Rhet. 101--Rhetoric and Composition	3	Speech 101--Principles of Effective	
Physical Education	(1)	Speaking	3
Military (men)	1	Physical Education	(1)
		Military (men)	1
Total	<u>15-17</u>	Total	<u>16-18</u>

Second Year

Forestry 111--Dendrology I	2	Forestry 112--Dendrology II	2
Math. 122--Analytic Geometry	4	Econ. 108--Elements of Economics	3
Physics 101--General Physics (Mechanics, Heat, and Sound)	5	Physics 102--General Physics (Light, Electricity, and Magnetism)	5
Chem. 105--Inorganic Chemistry and Qualitative Analysis	5	Chem. 132--Elementary Organic Chemistry	3
Physical Education	(1)	Physical Education	(1)
Military (men)	1	Military (men)	1
		Elective <sup>2/</sup>	3
Total	<u>18</u>	Total	<u>18</u>

Forestry Summer Camp

Eight Weeks in Summer Following Sophomore Year

<u>Course</u>	<u>Subject</u>	<u>Hours</u>
Forestry 211--Introduction to Silvics and Silviculture		3
Forestry 221--Forest Mensuration		3
Forestry 231--Introduction to Wood Utilization		2
Total		<u>8</u>

# STANDARD OF EXCELLENCE FOR THE 21ST CENTURY

The purpose of this document is to provide a clear and concise overview of the standards of excellence for the 21st century. This document is intended to be used as a guide for educators, parents, and students alike. It outlines the key areas of focus for the 21st century and provides a framework for measuring student achievement. The standards are designed to be challenging and to prepare students for the demands of the future. They are based on the latest research in education and are intended to be a guide, not a prescription. The standards are organized into four main areas: Academic Achievement, Critical Thinking and Problem Solving, Communication, and Character and Leadership. Each area contains a list of specific standards and a description of what students should be able to do. The standards are designed to be measurable and to provide a clear path for student growth and development. They are intended to be a guide for educators, parents, and students alike. The standards are based on the latest research in education and are intended to be a guide, not a prescription. The standards are organized into four main areas: Academic Achievement, Critical Thinking and Problem Solving, Communication, and Character and Leadership. Each area contains a list of specific standards and a description of what students should be able to do.

Grade	Standard	Level	Description
1	Academic Achievement	1	Students will be able to read and understand simple texts.
2	Academic Achievement	2	Students will be able to read and understand more complex texts.
3	Academic Achievement	3	Students will be able to read and understand complex texts.
4	Academic Achievement	4	Students will be able to read and understand complex texts.
5	Academic Achievement	5	Students will be able to read and understand complex texts.
6	Academic Achievement	6	Students will be able to read and understand complex texts.
7	Academic Achievement	7	Students will be able to read and understand complex texts.
8	Academic Achievement	8	Students will be able to read and understand complex texts.
9	Academic Achievement	9	Students will be able to read and understand complex texts.
10	Academic Achievement	10	Students will be able to read and understand complex texts.

Grade	Standard	Level	Description
1	Critical Thinking and Problem Solving	1	Students will be able to identify and solve simple problems.
2	Critical Thinking and Problem Solving	2	Students will be able to identify and solve more complex problems.
3	Critical Thinking and Problem Solving	3	Students will be able to identify and solve complex problems.
4	Critical Thinking and Problem Solving	4	Students will be able to identify and solve complex problems.
5	Critical Thinking and Problem Solving	5	Students will be able to identify and solve complex problems.
6	Critical Thinking and Problem Solving	6	Students will be able to identify and solve complex problems.
7	Critical Thinking and Problem Solving	7	Students will be able to identify and solve complex problems.
8	Critical Thinking and Problem Solving	8	Students will be able to identify and solve complex problems.
9	Critical Thinking and Problem Solving	9	Students will be able to identify and solve complex problems.
10	Critical Thinking and Problem Solving	10	Students will be able to identify and solve complex problems.

Grade	Standard	Level	Description
1	Communication	1	Students will be able to communicate effectively in simple ways.
2	Communication	2	Students will be able to communicate effectively in more complex ways.
3	Communication	3	Students will be able to communicate effectively in complex ways.
4	Communication	4	Students will be able to communicate effectively in complex ways.
5	Communication	5	Students will be able to communicate effectively in complex ways.
6	Communication	6	Students will be able to communicate effectively in complex ways.
7	Communication	7	Students will be able to communicate effectively in complex ways.
8	Communication	8	Students will be able to communicate effectively in complex ways.
9	Communication	9	Students will be able to communicate effectively in complex ways.
10	Communication	10	Students will be able to communicate effectively in complex ways.



Third Year

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Forestry 222--Advanced Forest Mensuration	3	Forestry 233--Forest Products and Industries	3
Botany 130--Plant Physiology	5	Forestry 271--Wood Anatomy and Identification	4
T.A.M. 171--Elements of Mechanics	3	Plant Path. 202--Forest Pathology	3
Humanities or Social Sciences <sup>2/</sup>	6	T.A.M. 172--Strength of Materials	3
		Forestry 232--Logging and Milling	3
		Humanities or Social Sciences <sup>2/</sup>	0-3
Total	<u>17</u>	Total	<u>16-19</u>

Summer Industrial Experience: A minimum of 10 weeks' employment preceding the senior year to be served with some wood-conversion or wood-using industry. Employer will be asked to rate student. Student will be required to submit report on his experience.

Fourth Year

Forestry 213--Practice of Silviculture	3	Forestry 234--Wood Seasoning	2
Forestry 241--Foundations of American Forest Management	3	Forestry 252--Forest Valuation and Finance	3
Forestry 251--Forest Economics	3	Forestry 272--Physical and Mechanical Properties of Wood	3
Forestry 275--Seminar in Forest Products	2	Forestry 273--Glues, Plywood and Laminates	4
Electives <sup>2/</sup>	6	Forestry 274--Wood Preservation	3
		Elective <sup>2/</sup>	3
Total	<u>17</u>	Total	<u>18</u>

Suggested Electives

Accy. 201	--Fundamentals of Accounting	3
Chem. 122	--Elementary Quantitative Analysis	5
Math. 161	--Statistics	3
Rhet. 151	--Business Letter Writing	3
Bus. Law 261	--Summary of Business Law	3
Math. 137	--Calculus	3

A minimum of 140 hours of credit, excluding Physical Education and including 8 credit hours earned in Summer Camp, are required for graduation.

<sup>1/</sup> Students who pass the algebra portion of the mathematics placement test are exempt from the algebra requirement; those who pass both the algebra and trigonometry portions of this test are exempt from both subjects. They should take Math. 117 and 127 and will not take Math. 122.

<sup>2/</sup> Humanities and Social Sciences: A minimum of 12 hours in addition to Speech 101 and Econ. 108 are required from anthro., art, econ., fin., for. lang., geog., hist., land. arch., lit., music, philos., pol. sci., psych., religion, sociol., and speech.

Table 1

Item	Amount	Item	Amount
1. General Administration	1.00	1. General Administration	1.00
2. Personnel	2.00	2. Personnel	2.00
3. Equipment	3.00	3. Equipment	3.00
4. Materials	4.00	4. Materials	4.00
5. Travel	5.00	5. Travel	5.00
6. Miscellaneous	6.00	6. Miscellaneous	6.00
7. Total	21.00	7. Total	21.00

These figures represent the estimated costs for the various items listed above. The total amount required is \$21.00. It is noted that the actual costs may vary slightly from these estimates.

Table 2

Item	Amount	Item	Amount
1. General Administration	1.00	1. General Administration	1.00
2. Personnel	2.00	2. Personnel	2.00
3. Equipment	3.00	3. Equipment	3.00
4. Materials	4.00	4. Materials	4.00
5. Travel	5.00	5. Travel	5.00
6. Miscellaneous	6.00	6. Miscellaneous	6.00
7. Total	21.00	7. Total	21.00

Table 3

1. General Administration	1.00
2. Personnel	2.00
3. Equipment	3.00
4. Materials	4.00
5. Travel	5.00
6. Miscellaneous	6.00
7. Total	21.00

The above tables show the estimated costs for the various items listed. The total amount required is \$21.00. It is noted that the actual costs may vary slightly from these estimates.

These figures represent the estimated costs for the various items listed above. The total amount required is \$21.00. It is noted that the actual costs may vary slightly from these estimates.



UNIVERSITY OF ILLINOIS  
CURRICULUM IN WOOD TECHNOLOGY AND UTILIZATION  
(for degree of B.S. in Forestry)

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_

DATE \_\_\_\_\_

PREScribed COURSES	CREDIT	GRADE	PREScribed FORESTRY	CREDIT	GRADE	
Botany 100	4		For. 101	3		
Botany 130	5		For. 111	2		
			For. 112	2		
Chem. 101 or 102	5-3					
Chem. 105	5		For. 211*	3		
Chem. 132	3		For. 213	3		
			For. 221*	3		
			For. 222	3		
Econ. 108	3		For. 231*	2		
Gen. Eng. 101	3		For. 232	3		
			For. 233	3		
Math. Placement Test or			For. 234	2		
Math. 111 or 112	5-3		For. 241	3		
Math. 114	2		For. 251	3		
Math. 122	4					
			For. 252	3		
			For. 271	4		
Physics 101	5		For. 272	3		
Physics 102	5		For. 273	4		
			For. 274	3		
Plant Path. 202	3		For. 275	2		
			Summer Ind. Exp. Report	0		
T.A.M. 171	3		HUMANITIES AND SOCIAL SCIENCES--A minimum of 12 hours from: anthro., art, econ., finance, for. lang., geog., hist., land.arch., lit., music, philos., pol.sci., psych., religion, sociol., or speech			
T.A.M. 172	3					
Rhet. 101	3					Earned:
Rhet. 102	3					To be earned:
Speech 101	3					
			OPEN ELECTIVES:			
Mil.-Mil.	1-1					TOTAL HOURS
Mil.-Mil.	1-1					
P.E.-P.E.	(1-1)					
P.E.-P.E.	(1-1)					

140 hours of credit, excluding P.E., and including eight credit hours earned in summer camp\*, are required for graduation. A minimum of 3.0 is required for graduation. Effective August 1, 1956, the students who transfer credits must have a minimum average of 3.0 in all courses taken at the U. of I. and combined average of 3.0 for transfer and U. of I. work.



RECEIPTS OF THE  
TREASURY DEPARTMENT  
FOR THE YEAR 1900

RECEIPTS OF THE  
TREASURY DEPARTMENT  
FOR THE YEAR 1900

DATE		AMOUNT		REMARKS	
1900	Jan 1	100.00	100.00	Balance forward	
1900	Jan 15	50.00	150.00	Receipts from ...	
1900	Jan 30	25.00	175.00	Receipts from ...	
1900	Feb 15	75.00	250.00	Receipts from ...	
1900	Feb 28	100.00	350.00	Receipts from ...	
1900	Mar 15	125.00	475.00	Receipts from ...	
1900	Mar 31	150.00	625.00	Receipts from ...	
1900	Apr 15	175.00	800.00	Receipts from ...	
1900	Apr 30	200.00	1000.00	Receipts from ...	
1900	May 15	225.00	1225.00	Receipts from ...	
1900	May 31	250.00	1475.00	Receipts from ...	
1900	Jun 15	275.00	1750.00	Receipts from ...	
1900	Jun 30	300.00	2050.00	Receipts from ...	
1900	Jul 15	325.00	2375.00	Receipts from ...	
1900	Jul 31	350.00	2725.00	Receipts from ...	
1900	Aug 15	375.00	3100.00	Receipts from ...	
1900	Aug 31	400.00	3500.00	Receipts from ...	
1900	Sep 15	425.00	3925.00	Receipts from ...	
1900	Sep 30	450.00	4375.00	Receipts from ...	
1900	Oct 15	475.00	4850.00	Receipts from ...	
1900	Oct 31	500.00	5350.00	Receipts from ...	
1900	Nov 15	525.00	5875.00	Receipts from ...	
1900	Nov 30	550.00	6425.00	Receipts from ...	
1900	Dec 15	575.00	7000.00	Receipts from ...	
1900	Dec 31	600.00	7600.00	Receipts from ...	

RECEIPTS OF THE  
TREASURY DEPARTMENT  
FOR THE YEAR 1900

**HORTICULTURAL FOOD CROPS CURRICULUM**  
(for the degree of B.S. in Horticultural Food Crops)

This curriculum is designed to prepare students for a wide variety of positions in the horticultural food industry. The number of requirements has been kept at a minimum to give flexibility and allow the student to progress in the field of his particular interest under the guidance of his adviser. A minimum of 132 hours of credit is required for graduation, including military and excluding physical education.

The student may follow either one of two options:

Option 1 -- Production

This option requires 8 hours of chemistry and emphasizes crop production but includes enough on processing to give the student an insight into the interdependence of these phases and enhance his chances for advancement into positions requiring a knowledge of both. Graduates should be qualified for work in crop production or some phases of raw products research in the processing industry. Students interested in the production or handling of fresh fruits or vegetables will find this a suitable core curriculum.

<u>First Semester</u>		<u>First Year</u>		<u>Second Semester</u>	
	<u>Hours</u>				<u>Hours</u>
Agr. 100--Lect. for Freshmen	0	Chem. 132--Elem. Org. Chem.			3
Bot. 100--General Botany	4	D.G.S. 112 <sup>1</sup> --Verbal Com.			4
Chem. 111--General Chemistry	5	Hort. 100--Intro. Hort.			3
D.G.S. 111 <sup>1</sup> --Verbal Com.	4	Math. 104--Elem. of Alg. & Trig.			3
Physical Education	(1)	Physical Education			(1)
Military (men)	1	Military (men)			1
		Electives			2-3
<b>Total</b>	<b>15</b>	<b>Total</b>			<b>17-18</b>
		<u>Second Year</u>			
Bot. 120--Plant Physiology	5	Geol. 105--Agricultural Geology			3
F. T. 260--Raw Materials for Processing	4	Hort. 242--Vegetable Crops Prod.			3
Physics 101--General Physics	5	Physics 102--General Physics			5
Physical Education	(1)	Physical Education			(1)
Military (men)	1	Military (men)			1
<b>Total</b>	<b>16</b>	Electives <sup>2</sup> /			4
		<b>Total</b>			<b>17</b>
		<u>Third Year</u>			
Bact. 104--Elem. Bact.	5	Agron. 201--Soils			5
F. T. 201--Elem. of Food Tech. <sup>3</sup> /	3	Econ. 108--Elem. of Economics			3
Hort. 262--Tree and Small Fruit Culture	3	Entom. 101--Agric. Entomology			3
P. P. 317--Plant Path.	4	Electives <sup>2</sup> /			6
Electives <sup>2</sup> /	3				
<b>Total</b>	<b>18</b>	<b>Total</b>			<b>17</b>
		<u>Fourth Year</u>			
Electives <sup>2</sup> /	18	Electives <sup>2</sup> /			18
<b>Total</b>	<b>18</b>	<b>Total</b>			<b>18</b>

<sup>1</sup>/ Rhet. 101, 102 and Speech 101 may be substituted for D.G.S. 111 and 112.

<sup>2</sup>/ Electives must include at least 12 hours of technical agriculture and 12 hours of humanities and social sciences (see next page).

<sup>3</sup>/ Students in this option will be allowed to enroll in F. T. 201 with the prerequisite of Chem. 132 instead of Chem. 133.

The purpose of this report is to provide a summary of the results of the research conducted by the Department of Agriculture, and to present the findings in a clear and concise manner. The research was conducted in the field of agriculture, and the results are presented in a series of tables and figures. The findings of the research are discussed in detail, and the conclusions are presented at the end of the report.

The research was conducted in the field of agriculture, and the results are presented in a series of tables and figures.

### Summary of Results

The research was conducted in the field of agriculture, and the results are presented in a series of tables and figures. The findings of the research are discussed in detail, and the conclusions are presented at the end of the report.

Table 1		Table 2	
Year	Amount	Year	Amount
1950	100.00	1950	100.00
1951	105.00	1951	105.00
1952	110.00	1952	110.00
1953	115.00	1953	115.00
1954	120.00	1954	120.00
1955	125.00	1955	125.00
1956	130.00	1956	130.00
1957	135.00	1957	135.00
1958	140.00	1958	140.00
1959	145.00	1959	145.00
1960	150.00	1960	150.00
1961	155.00	1961	155.00
1962	160.00	1962	160.00
1963	165.00	1963	165.00
1964	170.00	1964	170.00
1965	175.00	1965	175.00
1966	180.00	1966	180.00
1967	185.00	1967	185.00
1968	190.00	1968	190.00
1969	195.00	1969	195.00
1970	200.00	1970	200.00
1971	205.00	1971	205.00
1972	210.00	1972	210.00
1973	215.00	1973	215.00
1974	220.00	1974	220.00
1975	225.00	1975	225.00
1976	230.00	1976	230.00
1977	235.00	1977	235.00
1978	240.00	1978	240.00
1979	245.00	1979	245.00
1980	250.00	1980	250.00
1981	255.00	1981	255.00
1982	260.00	1982	260.00
1983	265.00	1983	265.00
1984	270.00	1984	270.00
1985	275.00	1985	275.00
1986	280.00	1986	280.00
1987	285.00	1987	285.00
1988	290.00	1988	290.00
1989	295.00	1989	295.00
1990	300.00	1990	300.00
1991	305.00	1991	305.00
1992	310.00	1992	310.00
1993	315.00	1993	315.00
1994	320.00	1994	320.00
1995	325.00	1995	325.00
1996	330.00	1996	330.00
1997	335.00	1997	335.00
1998	340.00	1998	340.00
1999	345.00	1999	345.00
2000	350.00	2000	350.00
2001	355.00	2001	355.00
2002	360.00	2002	360.00
2003	365.00	2003	365.00
2004	370.00	2004	370.00
2005	375.00	2005	375.00
2006	380.00	2006	380.00
2007	385.00	2007	385.00
2008	390.00	2008	390.00
2009	395.00	2009	395.00
2010	400.00	2010	400.00
2011	405.00	2011	405.00
2012	410.00	2012	410.00
2013	415.00	2013	415.00
2014	420.00	2014	420.00
2015	425.00	2015	425.00
2016	430.00	2016	430.00
2017	435.00	2017	435.00
2018	440.00	2018	440.00
2019	445.00	2019	445.00
2020	450.00	2020	450.00
2021	455.00	2021	455.00
2022	460.00	2022	460.00
2023	465.00	2023	465.00
2024	470.00	2024	470.00
2025	475.00	2025	475.00
2026	480.00	2026	480.00
2027	485.00	2027	485.00
2028	490.00	2028	490.00
2029	495.00	2029	495.00
2030	500.00	2030	500.00

The research was conducted in the field of agriculture, and the results are presented in a series of tables and figures. The findings of the research are discussed in detail, and the conclusions are presented at the end of the report.



Option 2 -- Processing

This option requires 18 to 20 hours of chemistry and Food Technology 204 and 301 and trains the student for a position in quality control in the manufacture of horticultural food products. The increased chemistry requirement necessitates a modification in the sequence of required courses.

<u>First Semester</u>		<u>First Year</u>	
	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Agr. 100--Lect. for Freshmen	0	Chem. 105--Inorganic Chemistry and Qualitative Analysis	5
Bot. 100--General Botany	4	D.C.S. 112 <sup>1</sup> --Verbal Commun.	4
Chem. 101 or 102--General Chemistry	5-3	Geol. 105--Agricultural Geology	3
D.C.S. 111 <sup>1</sup> --Verbal Commun.	4	Math. 104--Elem. of Alg. & Trig.	3
Physical Education	(1)	Physical Education	(1)
Military (men)	1	Military (men)	1
Elective <sup>1</sup>	3		
Total	16-18	Total	17
		<u>Second Year</u>	
Chem. 122--Elem. Quant. Analysis	5	Bact. 104--Elem. Bact.	5
Hort. 100--Introd. to Hort.	3	Chem. 133--Elem. Organ. Chem.	5
Physics 101--General Physics (Mechanics, Heat, and Sound)	5	Physics 102--General Physics (Light, Electricity, and Magnetism)	5
Physical Education	(1)	Physical Education	(1)
Military (men)	1	Military (men)	1
Elective <sup>2</sup>	2		
Total	17	Total	17
		<u>Third Year</u>	
Bot. 130--Plant Physiology	5	Agron. 201--Soils	5
Entom. 101--Agric. Entom.	3	Econ. 108--Elem. of Econ.	3
F. T. 201--Elem. of Food Tech.	3	Hort. 242--Veg. Crops Production	3
F. T. 260--Raw Materials for Processing	4	Electives <sup>2</sup>	6
Elective <sup>2</sup>	3		
Total	18	Total	17
		<u>Fourth Year</u>	
F. T. 301--Food Processing	4	F. T. 204--Elem. of Food Engin.	3
Hort. 262--Tree and Small Fruit Culture	3	Electives <sup>2</sup>	13-15
P. P. 317--Plant Pathology	4		
Electives <sup>2</sup>	6		
Total	17	Total	16-18

Humanities and Social Science Electives

For either option a minimum of 12 hours shall be selected from courses in anthropology, art, economics, finance, foreign language, geography, history, landscape architecture, literature, music, philosophy, political science, psychology, religion, sociology, and speech. Social science courses offered by the Division of General Studies may be used to satisfy this requirement. Students who contemplate continuing their studies for an advanced degree are advised to elect one of the foreign languages.

- <sup>1</sup>/ Rhet. 101, 102 and Speech 101 may be substituted for DGS 111 and 112.  
<sup>2</sup>/ Electives must include at least 5 hours of technical agriculture and 12 hours of humanities and social science (see above).



## HORTICULTURAL FOOD CROPS CURRICULUM (Continued)

Suggested Agriculture Electives -- for Either Option

	<u>Hours</u>
Agr. 114--Agricultural Journalism	3
Agr. 216--Experimental and Biological Statistics	3
Agron. 306--Fertilizers and Their Soil Reactions	3
Agron. 311--Physical Edaphology	3
F. T. 202--Elements of Food Technology	3
F. T. 302--Food Processing	4
F. T. 332--Principles of Sanitation in the Processing and Handling of Foods	2
Hort. 110--Plant and Animal Genetics	3
Hort. 200--Special Problems	3-5
Plant Pathology 307--Fruit Diseases	3
Plant Pathology 308--Vegetable and Canning Crop Diseases	3
Hort. 333--Marketing Horticultural Products	3
Hort. 345--Growth and Development of Vegetable Crops	4
Hort. 363--Advanced Pomology	4
Hort. 382--Improvement of Horticultural Crops by Breeding	3

Suggested Nonagriculture Electives -- for Either Option

Accy. 201--Fundamentals of Accounting	3
Bus. Law 100--Basic Principles of Business Law	3
Geog. 211--Agricultural Climatology	3
Mgmt. 101--Industrial Organization and Management	3
Mgmt. 205--Production Planning and Control	3
Phil. 102--Logic	3
Pol. Sci. 150--American Government: Organization and Power	3
Pol. Sci. 191--Principles of Political Science	4
Psych. 100--Introduction to Psychology	4
Speech 111--Business and Professional Speaking	2





NAME \_\_\_\_\_  
OPTION \_\_\_\_\_  
DATE \_\_\_\_\_

132 hours, including military and excluding P.E., are required for the degree as outlined above. A minimum average of 3.0 is required for graduation. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at the University of Illinois and a combined average of 3.0 for transfer and University of Illinois work.

1/ Rhet. 101, 102, and Speech 101 may be taken instead of D. G. S. 111 and 112.





**CURRICULUM IN RESTAURANT MANAGEMENT**  
(for the degree of Bachelor of Science in Restaurant Management)

The curriculum in restaurant management prepares students (both men and women) for managerial positions in restaurants and other commercial food service units. It also gives them basic training for work as purchasing agents, kitchen equipment and layout specialists, food inspectors, and for other allied occupations. A total of 126 hours of credit, excluding physical education, is required for graduation.

<u>First Semester</u>		<u>First Year</u>		<u>Second Semester</u>	
	Hours				Hours
Accy. 101--Prin. of Acctg.	3	Accy. 105--Acctg. Procedure	3		
Agric. 100--Lect. for Freshmen	3	Chem. 132--Elem. Organic Chem.	3		
American or English Lit.	3	American or English Lit.	3		
Chem. 101 or 102 or 111--Gen. Chem.	5-3	Rhet. 102--Rhet. and Comp.	3		
Rhet. 101--Rhet. and Comp.	3	Speech 101--Principles of			
Physical Education	(1)	Effective Speaking	3		
Military (men)	1	Physical Education	(1)		
		Military (men)	1		
<b>Total</b>	<b>14-16</b>	<b>Total</b>	<b>17</b>		
		<u>Second Year</u>			
	Hours				Hours
Econ. 108--Elements of Econ.	3	Bact. 104--Elementary Bact.	5		
Home Ec. 132--Foods and Nutrition	3	Mktg. 101--Prin. of Mktg.	3		
Physiol. 103--Introd. to Human		Psych. 103--Human Behavior	4		
Physiology	4	Soc. 100--Principles of Soc.	3		
Physical Education	(1)	Physical Education	(1)		
Military (men)	1	Military (men)	1		
Electives	3-6				
<b>Total</b>	<b>15-18</b>	<b>Total</b>	<b>17</b>		
		<u>Third Year</u>			
	Hours				Hours
An. Sci. 104--Selection and Use		Accy. 106--Elem. Cost Acctg.	3		
of Meat	2	Home Econ. 240--Quantity Cookery	5		
Bus. Law 261--Summary of Bus. Law	3	Management 101--Industrial Org.			
Econ. 240--Labor Problems	3	and Management	3		
Home Econ. 220--Dietetics	3	Rhet. 151--Bus. Letter Writing	3		
Home Econ. 231--Foods	3	Electives	3		
Home Econ. 253--Restaurant In-					
teriors <sup>1/</sup> , or Electives	3				
<b>Total</b>	<b>17</b>	<b>Total</b>	<b>17</b>		
		<u>Fourth Year</u>			
	Hours				Hours
Home Econ. 253--Restaurant In-		Home Econ. 350--Inst. Organization	4		
teriors <sup>1/</sup> , or Electives	3	and Management			
Home Econ. 345--Institution		Home Econ. 355--Advanced Quant.			
Management	3	Cook. and Catering	3		
Mgmt. 248--Personnel Admin.	3	Electives	9-11		
Electives	7-8				
<b>Total</b>	<b>16-17</b>	<b>Total</b>	<b>16-18</b>		

Note: Two summers of a minimum of eight weeks each of practical restaurant experience are required and should be completed before registering in Home Econ. 355. This experience would normally come at the end of the second and third years.

<sup>1/</sup> Offered in alternate years.

The following is a list of the research projects which have been carried out in the Department of Physics at the University of Chicago during the past year. The projects are arranged in alphabetical order of the names of the principal investigators. The names of the other investigators who have assisted in the work are given in parentheses. The names of the students who have worked on the projects are given in parentheses. The names of the other students who have assisted in the work are given in parentheses. The names of the other students who have assisted in the work are given in parentheses.

Project	Principal Investigator	Other Investigators	Students
1	Prof. J. R. Oppenheimer	(Prof. H. A. Bethe)	(Prof. E. S. Eyring)
2	Prof. J. R. Oppenheimer	(Prof. H. A. Bethe)	(Prof. E. S. Eyring)
3	Prof. J. R. Oppenheimer	(Prof. H. A. Bethe)	(Prof. E. S. Eyring)
4	Prof. J. R. Oppenheimer	(Prof. H. A. Bethe)	(Prof. E. S. Eyring)
5	Prof. J. R. Oppenheimer	(Prof. H. A. Bethe)	(Prof. E. S. Eyring)
6	Prof. J. R. Oppenheimer	(Prof. H. A. Bethe)	(Prof. E. S. Eyring)
7	Prof. J. R. Oppenheimer	(Prof. H. A. Bethe)	(Prof. E. S. Eyring)
8	Prof. J. R. Oppenheimer	(Prof. H. A. Bethe)	(Prof. E. S. Eyring)
9	Prof. J. R. Oppenheimer	(Prof. H. A. Bethe)	(Prof. E. S. Eyring)
10	Prof. J. R. Oppenheimer	(Prof. H. A. Bethe)	(Prof. E. S. Eyring)
11	Prof. J. R. Oppenheimer	(Prof. H. A. Bethe)	(Prof. E. S. Eyring)
12	Prof. J. R. Oppenheimer	(Prof. H. A. Bethe)	(Prof. E. S. Eyring)
13	Prof. J. R. Oppenheimer	(Prof. H. A. Bethe)	(Prof. E. S. Eyring)
14	Prof. J. R. Oppenheimer	(Prof. H. A. Bethe)	(Prof. E. S. Eyring)
15	Prof. J. R. Oppenheimer	(Prof. H. A. Bethe)	(Prof. E. S. Eyring)
16	Prof. J. R. Oppenheimer	(Prof. H. A. Bethe)	(Prof. E. S. Eyring)
17	Prof. J. R. Oppenheimer	(Prof. H. A. Bethe)	(Prof. E. S. Eyring)
18	Prof. J. R. Oppenheimer	(Prof. H. A. Bethe)	(Prof. E. S. Eyring)
19	Prof. J. R. Oppenheimer	(Prof. H. A. Bethe)	(Prof. E. S. Eyring)
20	Prof. J. R. Oppenheimer	(Prof. H. A. Bethe)	(Prof. E. S. Eyring)
21	Prof. J. R. Oppenheimer	(Prof. H. A. Bethe)	(Prof. E. S. Eyring)
22	Prof. J. R. Oppenheimer	(Prof. H. A. Bethe)	(Prof. E. S. Eyring)
23	Prof. J. R. Oppenheimer	(Prof. H. A. Bethe)	(Prof. E. S. Eyring)
24	Prof. J. R. Oppenheimer	(Prof. H. A. Bethe)	(Prof. E. S. Eyring)
25	Prof. J. R. Oppenheimer	(Prof. H. A. Bethe)	(Prof. E. S. Eyring)
26	Prof. J. R. Oppenheimer	(Prof. H. A. Bethe)	(Prof. E. S. Eyring)
27	Prof. J. R. Oppenheimer	(Prof. H. A. Bethe)	(Prof. E. S. Eyring)
28	Prof. J. R. Oppenheimer	(Prof. H. A. Bethe)	(Prof. E. S. Eyring)
29	Prof. J. R. Oppenheimer	(Prof. H. A. Bethe)	(Prof. E. S. Eyring)
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**CURRICULUM IN RESTAURANT MANAGEMENT**  
(for the degree of B.S. in Restaurant Management)

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_  
DATE \_\_\_\_\_

PREScribed COURSES	HOURS	GRADE	PREScribed COURSES	HOURS	GRADE	
Accy. 101	3		Rhet. 101	3		
Accy. 106	3		Rhet. 102	3		
Agric. 100	0					
Animal Sci. 104	2		Rhet. 151	3		
Bact. 104	5		Soc. 100	3		
Bus. Law 261	3		Speech 101	3		
Chem. 111 or 101 or 102	5-3		*Summer Practice 1	0		
Chem. 132	3		*Summer Practice 2	0		
Econ. 108	3		OPEN ELECTIVES:			
Econ. 240	3					
Eng. Lit. or (total of	3-4					
Amer. Lit. 6 hours)	3-2					
Home Econ. 100	3					
Home Econ. 220	3					
Home Econ. 231	3					
Home Econ. 240	5					
Home Econ. 253	3					
Home Econ. 345	3					
Home Econ. 350	4					
*Home Econ. 355	3					
Management 101	3					
Management 248	3					
Marketing 101	3					
Physiol. 103	4					
Psychol. 103	4					
Mil.-Mil.	1-1					
Mil.-Mil.	1-1					
P.E.-P.E.	(1-1)					
P.E.-P.E.	(1-1)					
						TOTAL HOURS

\*Two summers (or equivalent) of a minimum of eight weeks each of practical restaurant experience are required and must be completed before registering in Home Econ. 355. This experience would normally come at the end of the second and third years. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at the U. of I. and a combined average of 3.0 for transfer and U. of I. work. Minimum average of 3.0 is required for graduation. 126 hours, including military and excluding P.E., are required for the degree as outlined above.



NAME		ADDRESS		CITY		STATE		ZIP	
1	100	100	100	100	100	100	100	100	100
2	100	100	100	100	100	100	100	100	100
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7	100	100	100	100	100	100	100	100	100
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9	100	100	100	100	100	100	100	100	100
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11	100	100	100	100	100	100	100	100	100
12	100	100	100	100	100	100	100	100	100
13	100	100	100	100	100	100	100	100	100
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15	100	100	100	100	100	100	100	100	100
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17	100	100	100	100	100	100	100	100	100
18	100	100	100	100	100	100	100	100	100
19	100	100	100	100	100	100	100	100	100
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21	100	100	100	100	100	100	100	100	100
22	100	100	100	100	100	100	100	100	100
23	100	100	100	100	100	100	100	100	100
24	100	100	100	100	100	100	100	100	100
25	100	100	100	100	100	100	100	100	100
26	100	100	100	100	100	100	100	100	100
27	100	100	100	100	100	100	100	100	100
28	100	100	100	100	100	100	100	100	100
29	100	100	100	100	100	100	100	100	100
30	100	100	100	100	100	100	100	100	100
31	100	100	100	100	100	100	100	100	100
32	100	100	100	100	100	100	100	100	100
33	100	100	100	100	100	100	100	100	100
34	100	100	100	100	100	100	100	100	100
35	100	100	100	100	100	100	100	100	100
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42	100	100	100	100	100	100	100	100	100
43	100	100	100	100	100	100	100	100	100
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49	100	100	100	100	100	100	100	100	100
50	100	100	100	100	100	100	100	100	100

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1959/60

# A Handbook for Agricultural Students and Their Advisers



Mumford Hall, College of Agriculture, University of Illinois

By  
C. D. Smith, Assistant Dean

University of Illinois College of Agriculture  
Urbana, Illinois

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Name of Student: \_\_\_\_\_

Local Address: \_\_\_\_\_ , \_\_\_\_\_  
                                    (Number and Street)                                    (Champaign or Urbana)

Home Address \_\_\_\_\_

Name of Faculty Adviser: \_\_\_\_\_

Office Address: \_\_\_\_\_ Phone: \_\_\_\_\_

Office Hours: \_\_\_\_\_



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## Student Objectives

Every student who enters upon a University program should set up an educational goal that fits his abilities and interests and has such appeal for him that he will exert the effort and make the sacrifices necessary to complete his program. Although freshman interviews show that a high percentage of entering students plan to graduate, fewer than half of them complete their college work. Only a small percentage lack the inherent capacity to complete a well-selected college program with realistic goals based on abilities and interests. Most of those who drop out along the way do so because they have no goals which they are determined to reach.

The importance of setting adequate goals for yourself is shown in the following statement:

"Our skill in reaching objectives may depend in no small degree upon the clarity with which we see them. Once our objectives are clearly visible the appropriate steps for reaching them may be initiated--University objectives are concerned with the whole fabric of higher education rather than the achievement of predetermined and often narrow goals in the shortest possible time. . . . It has been suggested that four of the principal goals of professional education are the production of students possessing at graduation: (1) a minimum body of basic and fundamental knowledge which is commonly possessed by members of the profession; (2) skill in handling source materials and in adding to one's body of knowledge; (3) the ability to think, analyze, and act in the presence of new or unprecedented situations; and (4) an ethical attitude toward the uses to which a member of the profession may put his knowledge and skill."<sup>1/</sup>

Many students are inadequately motivated because their goals have been too narrowly defined. Hence the basic or fundamental subjects are termed uninteresting and impractical. Selecting courses dealing only with the methods of performing the duties of a particular job, without basing the practical skills on deeply grounded principles, will result in a perishable education. Today's world is characterized by rapid change. Few jobs are done the same way for more than ten years. The more deeply rooted your understanding, the less likely you are to be uprooted by the swift winds of change.

## Student Plans and Student Guidance

The fact that many students arrive at the University with undefined educational goals is not a serious handicap, but it can become serious if they do not begin to set up clear-cut goals in line with their capacities and interests soon after they arrive. Each freshman entering the University of Illinois is given a battery of guidance tests to help him enter upon and follow an educational program suited to his abilities. But tests alone are not enough. The goals you set must be individually chosen and must command your interests, loyalties, and devotion to the point where the effort and sacrifice necessary to attain them will be exerted.

The table on the following pages shows the range and pattern of employment normally undertaken by graduates in agriculture. It is an actual record of jobs held in 1950 by graduates. Information about trends in employment and current calls for trained personnel can be obtained from the Associate Dean's Office, 104 Mumford Hall, or from your faculty adviser.

<sup>1/</sup> Report of the Special Committee of the National Association of State Universities to Study Postwar Educational Problems--Mimeograph, 1944.



## Introduction

The first thing I noticed when I stepped out of the plane was the cold, crisp air. It was a relief after the warm, humid air of the tropics. I looked around and saw a vast, open landscape stretching out before me. The ground was a mix of brown and green, with patches of dry grass and small, hardy shrubs. In the distance, a range of low, rolling hills could be seen under a clear, blue sky. The overall impression was one of a remote, frontier-like location. I felt a sense of adventure and curiosity as I began my journey into this new world.

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## Chapter One: The Journey

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The University has provided the following five main agencies to give you help and guidance in selecting and planning your individual program:

1. The Student Counseling Bureau, 311 Administration (E), administers and interprets tests concerned with the students' abilities, interests and personality. Professional help with study habits, reading skills and personal problems is also available.
2. The Faculty Adviser, a member of the teaching staff who is chosen by the student or assigned by the Associate Dean's office, helps the student with the ordinary problems of course selection and individual activities. Each faculty adviser serves only as many students as he can know well. If you fail to become acquainted with your adviser, the purpose of the advisory plan is defeated. Your faculty adviser is glad to assist you--make use of him.

It is particularly important for you to seek the counsel of your faculty adviser before and during registration in order that your program may be carefully planned. Occasionally students turn to anyone who will sign a study list. This is likely to result in a short-sighted semester program which will not lead directly toward your objective.

A faculty adviser is assigned to new freshmen without consultation, because the freshmen usually are not acquainted with members of the staff. During the second year, the student is invited to select his own adviser with the help of the staff in the Associate Dean's office. If at any time you wish to change programs or advisers, you should come to the Associate Dean's office.

3. The Instructor is a specialist in his field, well acquainted with the subject matter and its related employment opportunities. Do not hesitate to discuss your problems with your instructors. They are here to serve you. They can provide channels through which you may see new opportunities. To locate instructors, use the Staff Directory.
4. The Dean and the Associate Dean of the college are responsible for administering student programs and for keeping records. The Associate Dean's office is the principal center for information about college and university regulations, grade requirements, credits to be earned, honors, employment opportunities, and many other facts concerning your educational progress. You should feel free to call on this office with any problem on which you feel you need help.
5. The office and personnel headed by the Dean of Students, 152 Administration (W), including the Dean of Men, 157 Administration (W), the Dean of Women, 100 English Building, the Health Service, Davenport House, and the Director of Residence Halls and Student Housing, 108 Illini Hall, are ready to serve all students, particularly with relation to problems outside the area of formal education.

1. The above information is being furnished to you for your information and is not to be used for any other purpose.

1. The Family Planning Council of the American People is pleased to announce the results of the 1964-1965 survey of the American people on family planning. The survey was conducted by the American People's Family Planning Council, a non-profit organization, and the results are presented in the following report.

- [illegible]



## JOB DISTRIBUTION AND SALARIES OF AGRICULTURAL GRADUATES AS OF 1950

Job title	Graduates		Salary <sup>1/</sup>		Years since graduation				
	No.	% of total	No. re- porting	Average salary	1-10	11-20	21-30	31-40	41-50
<b>EDUCATIONAL WORKERS</b>									
College Teachers (total)	143	5.61	115	\$5,918	46	29	37	29	2
Grad. Assistants	22	.86	-	-	21	1	-	-	-
Instructors	17	.67	16	4,536	8	5	3	1	-
Assistant Professors	30	1.18	27	4,922	11	9	8	2	-
Associate Professors	21	.82	20	5,685	3	6	11	1	-
Professors	53	2.08	52	6,951	3	8	15	25	2
College Administrators	9	.35	8	8,035	1	2	3	3	-
County Agents (Farm Advisers)	92	3.61	89	5,345	22	33	21	16	-
Asst. County Agents & Youth Advisers	49	1.92	49	3,520	47	2	-	-	-
Extension Specialists & Directors	29	1.14	29	5,666	6	7	8	8	-
High School Teachers	431	16.92	391	4,356	233	81	87	30	-
Total Educational Workers	753	29.56	681	4,788	355	154	156	86	2
<b>PROFESSIONAL TECHNICIANS</b>									
Agronomists (total)	101	3.97	95	5,142	39	27	23	12	0
Soil Conservation Service	53	2.08	50	4,453	23	15	11	4	0
Soils	26	1.02	24	5,584	8	5	9	4	0
Crops	22	.86	21	6,278	8	7	3	4	0
Animal Husbandmen	20	.79	16	4,938	14	4	2	0	0
Chemists and Bacteriologists	24	.94	19	6,355	10	4	7	3	0
Dairy Husbandmen	17	.67	16	4,010	12	4	0	1	0
Economists & Statisticians	49	1.92	47	6,897	18	14	13	4	0
Engineers (Agr. & Others)	22	.86	19	5,096	8	4	5	5	0
Entomologists & Zoologists	9	.35	8	5,980	0	2	6	0	1
Farmers Home Administration	23	.90	20	4,881	8	8	4	3	0
Horticulturists	10	.39	7	6,209	2	1	5	2	0
Inspectors (Grain, Seed, & Feed)	18	.71	16	4,653	8	5	4	1	0
Total Professional Technicians	293	11.50	263	5,463	119	73	69	31	1
<b>FARMERS &amp; FARM MANAGERS</b>									
Farmers (total)	540	21.20	264	6,162	213	139	99	74	15
Owner-Operators	195	7.66	71	7,787	18	30	72	61	14
Partnerships	143	5.61	81	5,450	90	38	12	3	0
Tenants	194	7.62	106	5,851	97	71	15	10	1
Farm Hands	8	.31	6	2,033	8	0	0	0	0
Farm Managers	113	4.44	96	5,000	49	34	16	10	4
Total Farmers & Farm Managers	653	25.64	360	5,852	262	173	115	84	19

<sup>1/</sup> Readers should keep in mind the fact that salaries listed are those reported for the year 1950 and do not reflect general increases that have taken place since that time.





## JOB DISTRIBUTION AND SALARIES OF AGRICULTURAL GRADUATES AS OF 1950 - cont.

Job title	Graduates		Salary		Years since graduation				
	No.	% of total	No. re- porting	Average salary	1-10	11-20	21-30	31-40	41-50
<b>BUSINESS &amp; INDUSTRY</b>									
Managers and Supervisors	233	9.15	208	\$8,148	73	75	58	24	3
Agriculture Cooperatives	18	.71	18	6,207	8	4	5	1	0
Dairy Manufactures	65	2.55	57	8,529	19	26	15	5	0
Fruits, Vegetables, & Produce	17	.67	13	6,336	8	4	1	4	0
Grain, Seed, Feed, Fertilizer	50	1.96	45	9,288	14	15	16	4	1
Hatcheries	11	.43	7	6,641	3	6	1	1	0
Livestock Marketing & Meat Packing	16	.63	16	4,108	7	2	4	2	1
Machinery, Equipment, & Service	53	2.08	49	8,629	14	17	15	6	1
Miscellaneous Business & Service	3	.12	3	20,500	0	1	1	1	0
Salesmen & Sales Managers	176	6.91	153	6,378	84	38	31	19	4
Agricultural Chemicals	8	.31	8	6,388	5	3	0	0	0
Dairy Products	16	.63	14	6,700	8	7	1	0	0
Feed	18	.71	16	5,351	12	3	2	1	0
Fertilizer	20	.79	18	4,703	12	4	3	1	0
Grain, Grain Products, & Seed	20	.79	19	6,169	8	5	5	1	1
Insurance	48	1.88	36	7,510	24	8	6	8	2
Livestock Products (Meat, Eggs)	8	.31	8	4,510	8	0	0	0	0
Machinery & Equipment	21	.82	18	7,683	5	5	6	4	1
Miscellaneous Products & Equipment	17	.67	16	6,164	2	3	8	4	0
Owners & Operators, Miscellaneous, Non-Agricultural Businesses	31	1.22	23	12,470	3	6	6	15	1
Florists, Nursery, & Landscaping	82	3.22	58	7,488	16	30	20	15	1
Farm Loans & Appraisal	47	1.85	47	5,773	8	21	7	11	0
Bank Officials	16	.63	15	9,685	2	3	6	5	0
Real Estate & Loan Agents	11	.43	8	9,512	1	0	6	4	0
Journalism, Radio & Advertising	37	1.45	29	8,570	11	8	10	8	0
Public Relations	9	.35	9	8,581	2	2	4	0	1
Laboratory Technicians	8	.31	8	2,981	7	0	1	0	0
Total Business & Industry	650	25.52	558	7,588	207	183	149	101	10
<b>MISCELLANEOUS PROFESSIONS &amp; OTHERS</b>									
Doctors & Dentists	11	.43	-	-	1	3	3	3	1
Veterinarians	5	.20	-	-	5	0	0	0	0
Lawyers	11	.43	-	-	7	1	2	1	0
Ministers & Missionaries	11	.43	7	4,200	3	1	5	2	0
Public Officials (Government)	42	1.65	35	5,989	7	5	18	11	1
Army, Navy, and Air Force	22	.86	19	6,009	9	10	2	1	0
Students (Graduate & Professional)	46	1.81	-	-	42	2	2	0	0
Retired & Disabled	26	1.02	-	-	2	0	3	19	2
General Miscellaneous	24	.94	18	4,362	10	6	5	3	0
Totals	198	7.77	79	5,465	85	28	40	40	4
<b>GRAND TOTAL</b>	2,547	99.99	1,941	\$ 5,909	1,029	611	529	342	36

Date		Description		Amount	
Month	Day	Particulars	Debit	Credit	Balance
Jan	1	Balance forward			100.00
Jan	2	Jan 1st	10.00		90.00
Jan	3	Jan 2nd	5.00		85.00
Jan	4	Jan 3rd	15.00		70.00
Jan	5	Jan 4th	20.00		50.00
Jan	6	Jan 5th	10.00		40.00
Jan	7	Jan 6th	5.00		35.00
Jan	8	Jan 7th	10.00		25.00
Jan	9	Jan 8th	15.00		10.00
Jan	10	Jan 9th	5.00		5.00
Jan	11	Jan 10th	10.00		15.00
Jan	12	Jan 11th	15.00		30.00
Jan	13	Jan 12th	20.00		50.00
Jan	14	Jan 13th	10.00		40.00
Jan	15	Jan 14th	5.00		35.00
Jan	16	Jan 15th	10.00		25.00
Jan	17	Jan 16th	15.00		10.00
Jan	18	Jan 17th	5.00		5.00
Jan	19	Jan 18th	10.00		15.00
Jan	20	Jan 19th	15.00		30.00
Jan	21	Jan 20th	20.00		50.00
Jan	22	Jan 21st	10.00		40.00
Jan	23	Jan 22nd	5.00		35.00
Jan	24	Jan 23rd	10.00		25.00
Jan	25	Jan 24th	15.00		10.00
Jan	26	Jan 25th	5.00		5.00
Jan	27	Jan 26th	10.00		15.00
Jan	28	Jan 27th	15.00		30.00
Jan	29	Jan 28th	20.00		50.00
Jan	30	Jan 29th	10.00		40.00
Jan	31	Jan 30th	5.00		35.00
Feb	1	Feb 1st	10.00		25.00
Feb	2	Feb 2nd	15.00		10.00
Feb	3	Feb 3rd	5.00		5.00
Feb	4	Feb 4th	10.00		15.00
Feb	5	Feb 5th	15.00		30.00
Feb	6	Feb 6th	20.00		50.00
Feb	7	Feb 7th	10.00		40.00
Feb	8	Feb 8th	5.00		35.00
Feb	9	Feb 9th	10.00		25.00
Feb	10	Feb 10th	15.00		10.00
Feb	11	Feb 11th	20.00		50.00
Feb	12	Feb 12th	10.00		40.00
Feb	13	Feb 13th	5.00		35.00
Feb	14	Feb 14th	10.00		25.00
Feb	15	Feb 15th	15.00		10.00
Feb	16	Feb 16th	20.00		50.00
Feb	17	Feb 17th	10.00		40.00
Feb	18	Feb 18th	5.00		35.00
Feb	19	Feb 19th	10.00		25.00
Feb	20	Feb 20th	15.00		10.00
Feb	21	Feb 21st	20.00		50.00
Feb	22	Feb 22nd	10.00		40.00
Feb	23	Feb 23rd	5.00		35.00
Feb	24	Feb 24th	10.00		25.00
Feb	25	Feb 25th	15.00		10.00
Feb	26	Feb 26th	20.00		50.00
Feb	27	Feb 27th	10.00		40.00
Feb	28	Feb 28th	5.00		35.00
Feb	29	Feb 29th	10.00		25.00
Feb	30	Feb 30th	15.00		10.00
Feb	31	Feb 31st	20.00		50.00



EXAMPLES OF INITIAL EMPLOYMENT AND SALARIES -

## June 1959 COLLEGE OF AGRICULTURE GRADUATES

This summary includes 140 men who completed work for the Bachelor of Science degree in June, 1959. Beginning salaries ranged from \$4200 to \$5900 a year. The average was \$4676; however, the majority were in the \$4500-4800 bracket.

Thirty-four of the graduates had completed military service. Of the remaining 106, eight-three men still have a military obligation to fulfill. However, many of the people, included in other categories below, have taken employment until they are called for military service.

<u>Initial employment or status</u>	<u>Number</u>	<u>Percent of June 1959 graduates</u>
<u>PROFESSIONAL ADVANCEMENT</u>	35	(25.5%)
Graduate work	28	
College of Veterinary Medicine	4	
College of Law	1	
Additional undergraduate work	2	
<u>AGRICULTURAL BUSINESS AND INDUSTRY</u>	26	(18.5%)
Includes farm management (2), farm credit (1), sales and service (feed, seed, fertilizer, agricultural chemical, etc.) (14), meat-packing industry (2), journalism (1), restaurant and hotel management (2), dairy manufacturing (2), farm equipment (3).		
<u>FARMERS</u>	25	(17.8%)
Includes tenants, partnerships, and owner-operators		
<u>MILITARY SERVICE</u>	24	(17.1%)
<u>EDUCATIONAL WORKERS</u>	13	( 9.2%)
Vocational agriculture teachers (9), assistant farm advisers and youth advisers (4).		
<u>MISCELLANEOUS</u>	5	( 3.5%)
Soil survey work (2), YMCA staff (1), International Farm Youth Exchange (1), aircraft instruction (1).		
<u>UNDECIDED</u>	12	( 8.4%)
As of June 15, 1959, these men had not made definite job decisions.		
Total	<u>140</u>	<u>100%</u>

This research project, the first of its kind, was completed in 1971. The research project is now, 1971, continuing relative to the 1971-1972 period. The research was conducted by the Institute of Military Policy and Strategy.

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INSTITUTE OF MILITARY POLICY AND STRATEGY	1971	1971-1972
1971-1972	1971	1971-1972
1971-1972	1971	1971-1972
1971-1972	1971	1971-1972
1971-1972	1971	1971-1972
1971-1972	1971	1971-1972
1971-1972	1971	1971-1972



## CURRICULA AND MAJORS AS EDUCATIONAL PROGRAMS

The College of Agriculture has, excluding home economics, eleven curricula with various majors or options leading to degrees.

The curricula are:

1. General Curriculum in Agriculture with majors in:
  - a. Agricultural Economics
  - b. Agricultural Mechanization
  - c. Agronomy
  - d. Animal Science
  - e. Dairy Science
  - f. Horticulture
  - g. General Agriculture
2. General Curriculum in Agriculture with major for teachers of Vocational Agriculture
3. Agricultural Industries
4. Agricultural Science with options in:
  - a. Animal, plant, or soil science
  - b. Agricultural economics, rural sociology, or agricultural law
  - c. Agricultural engineering--five-year combined program in Agricultural Science and Agricultural Engineering
5. Dairy Technology
6. Floriculture and Ornamental Horticulture
7. Food Technology
8. Forest Production
9. Wood Technology and Utilization
10. Horticultural Food Crops
11. Restaurant Management

Curricula are educational programs carefully planned to guide students whose educational goals are within certain related areas. They contain:

1. The basic skills or foundation courses required of all students, such as rhetoric, physical education and, for men, military training.
2. A minimum content of general education, in the biological, physical, and social sciences and the humanities, widely held to be essential in any program of college education.
3. The additional basic sciences, including mathematics.
4. Applied courses leading to professional attainments sufficient to permit entrance to some field of professional work or more advanced training on the graduate level. Students planning graduate study should consider the curriculum in agricultural science (pages 42-47).

The following pages present the agricultural curricula and majors in outline form suitable to use as guides or check sheets. Each student should use the appropriate curriculum page to record his progress. As each course is completed, the grade can be inserted, and it will then be possible to determine the remaining requirements. When the student reaches the junior level, the Associate Dean's office sends him a check sheet showing the work yet to be completed before graduation.





With the exception of the curricula in agricultural science, agricultural industries, and in general agriculture, elective freedom is somewhat limited because the field of work to which each of the other curricula leads calls for specialized training of a specific character.

The general curriculum in agriculture includes a common core program for the first two years. For the junior and senior years, the student may select one of the approved departmental majors, or the vocational agriculture major; or he may continue with a broad general program by selecting the general major. This curriculum is broad and flexible, with sufficient electives and majors to meet the specific needs of different students.

The curriculum in agricultural industries is designed to prepare students for careers in those industries and businesses that service or are related to agriculture. It provides a broad selection of courses in agricultural sciences, natural sciences, economics and other social sciences, business administration, finance, communication, and the humanities. Because of the similarity of courses during the first two years, students may readily transfer from the general curriculum to the agricultural industries curriculum at any time during the first two years.

The curriculum in agricultural science is suited to those students desiring a stronger foundation in science, mathematics, or engineering, and it is especially recommended for all students expecting to do graduate study or enter upon advanced technical work in an agricultural industry. A student selecting the curriculum in agricultural science should ask for assignment to a faculty adviser in his field of special interest. Ordinarily this should be done by the beginning of the sophomore year.

The purposes of the curricula in dairy technology, floriculture, and ornamental horticulture, food technology, forestry, horticultural food crops, and restaurant management are indicated by their names. The student should refer to the University of Illinois Undergraduate Study Bulletin for course descriptions.

All students in the College of Agriculture should secure and keep for reference two printed booklets normally handed out during the first freshman registration. These booklets are (1) "University of Illinois Regulations Applying to Undergraduate Students" and (2) "Scholastic Regulations Applying to Undergraduate Students, College of Agriculture." The first of these booklets contains many items of information useful to all students in the University. The second contains information about required standards of scholarship and provisions for graduation with honors in the College of Agriculture

### Requirements for Graduation

Students who have satisfied the general University requirements for graduation, have maintained throughout their courses a satisfactory record of scholarship and moral character, and have completed a curriculum in the College of Agriculture, including the prescribed studies and sufficient electives, are graduated with the degree of Bachelor of Science. For the degree in horticultural food crops, 132 semester hours of credit are required for graduation, including military and excluding physical education. For the degree in food technology, the requirement for graduation is 130 hours, exclusive of physical education and the first two years of basic military. For the degree in forestry, either curriculum, the requirement for graduation is a minimum of 140 hours of credit, including eight credit hours earned in summer camp, military science, and excluding physical education. All other agriculture curricula require 126 hours, including basic military and excluding physical education. Students who transfer from other educational institutions are required to complete in residence at least half the technical agriculture credit required for the degree; they must also complete their senior year, of not less than 30 semester hours, in residence at the University.



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Credit Restrictions. Any student entering the College of Agriculture for the first time after September 1, 1958, may not count work taken in physical education toward any degree in the College of Agriculture. The physical education requirement for graduation remains the same; however, grades in physical education are not included in the student's average. This restriction does not apply to courses in dance, health education, and recreation.

Students who entered the College of Agriculture prior to September 1, 1958, may count physical education credits in accordance with the rules in effect at the time of their admission.

No more than 15 credit hours in approved Institute of Aviation courses may be counted toward a degree in agriculture.

No typing or shorthand courses, not more than two hours of credit in music ensemble courses, and not more than ten hours of credit in religion may be counted toward graduation.

No credit toward graduation will be given for Math. 101 and/or 102.

Effective September, 1958, no credits are granted on the basis of G.E.D. tests.

Not more than ten hours of credit in special problems courses may be counted toward graduation in agriculture and home economics curricula.

Grade-Average Requirements. Students who first entered the University of Illinois between October 1, 1947, and August 1, 1956, must attain a grade-point average of not less than 3.0 ("C") to qualify for the B.S. degree. All work taken, both in residence and transferred, is included in the computation of grade averages. This includes grades of "E" (failure), "ab" (absent), and "dr" (dropped). All grades including "E", "ab", or "dr" always remain in the over-all average, even though the student repeats the course. Grades of "ab" and "dr" are equivalent to "E".

Effective August 1, 1956, each candidate for graduation must have an average of not less than 3.0, including grades in courses transferred from other institutions, and he must have an average of not less than 3.0 in all courses taken at the University of Illinois. Students who transfer work after August 1, 1956, will be subject to this requirement even though they may originally have enrolled in the University of Illinois prior to August 1, 1956. When a course has been repeated, both the original and subsequent grades are included in the average. (Example: If a student has completed a course with a grade of "D" and obtains the Associate Dean's permission to repeat the course, and upon second registration receives a grade of "C", both grades will be used in computing the over-all average. Credit is, however, given only once for the same course.)

Encouragement of superior students has always been an aim of the College. Beginning with the academic year 1959-60, the College will participate in the University Honors Program. A special seminar and other activities will be conducted for James Scholars in agriculture and for other top agriculture college students.

The first of these is the fact that the physical sciences have been the most successful in their efforts to understand the natural world. This is due to the fact that the physical sciences have been able to develop a set of principles which can be applied to a wide range of phenomena. This has allowed them to make predictions about the future which have been verified by experiment.

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The ninth of these is the fact that the physical sciences have been able to develop a set of principles which can be applied to a wide range of phenomena. This has allowed them to make predictions about the future which have been verified by experiment.



Registration in Special Problems Courses. Courses offered by the various departments under the heading or classification of Special Problems may serve one or more of the following purposes:

1. An opportunity for students to test their abilities for research and individual study.
2. A means of studying a subject-matter area or problem not covered by a formal course offering.
3. A means of making a contribution to the departmental research program in a limited manner.

The following minimum prerequisite has been adopted by the departments concerned for registration in Agricultural Economics 200, Agronomy 200, Agricultural Engineering 300, Animal Science 200, Dairy Technology 200, Horticulture 200, and Plant Pathology 300:

"Minimum grade point average, 3.5; not open to students on probation; consent of the instructor and head of the department."

A special registration form must be secured from the Associate Dean's Office for each registration in a special problem course. Exceptions to the stated prerequisite may be made in unusual cases.

#### General University Requirements

Certain courses, such as rhetoric, military science (for men), and physical education, are required for all students. Unless specifically exempted, each student is expected to register for these courses each semester until he has completed the requirements in each.

Rhetoric. Satisfactory proficiency in the use of written English is a requirement for graduation. All students entering the University as freshmen directly from secondary schools are required to take a placement test in rhetoric. Those who fail the test must register in Rhetoric 100, a non-credit course. Students who receive grades of "C" or "D" in Rhetoric 102 (or its equivalent) are required to take an English qualifying examination before graduating. Those who fail to pass the qualifying examination are required to pass an extra semester course in rhetoric (Rhetoric 200).

Military and Physical Education. Students entering the University with less than sixty semester hours of credit are required to secure four semesters of credit in physical education and military (unless otherwise exempt from the military requirement). Those who enter the University with sixty or more semester hours of credit are exempt from the requirement in physical education and basic military.



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### Mathematics Requirement

The standard mathematics requirement for admission to the College of Agriculture is one year of high school algebra and one year of high school geometry. Because of the increasing importance of mathematics in everyday life and in most professions, including agriculture, the faculty of the College recommends that students include as much additional mathematics in their high school programs as possible.

A minimum of one course in college algebra is required for graduation in all agriculture curricula, unless the student is exempted by the mathematics placement examination.

To insure that entering students will be placed in the appropriate college mathematics course, we are now offering a mathematics placement test. This test is to be taken by all students entering the College of Agriculture unless exempted (see below). It is not a proficiency examination. No credit toward graduation will be given to students who pass it. Those who make a sufficiently high grade will be exempt from the algebra requirement and, if they wish or if their curriculum requires it, they may begin college mathematics with a more advanced course, such as trigonometry or analytical geometry.

Test I is included as a part of the Freshman Guidance Examinations and covers the usual topics of the first course in college algebra. It is given at regularly scheduled times during the late spring and early summer and during the registration periods in September and February. Entering students are notified of the time and place when they apply for admission and receive their permits to enter.

Test II, advanced mathematics placement test, covers the subjects of advanced algebra, trigonometry, and geometry. New students should consult their New Student Week Program for purpose, eligibility, time, and place of this test. The mathematics placement test should not be confused with entrance examinations. Entrance examinations are offered several times each year and are taken by applicants who need to remove deficiencies in specific subjects for admission.

#### Exceptions

Students who enter with acceptable equivalent college credit in algebra are exempt from the mathematics placement test I.

A student who is admitted with a deficiency in high school mathematics will not take the placement examination until after he has made up his deficiency. The minimum prerequisite for Math. 111, 112, and 104 is one year of high school algebra and one year of high school geometry. Temporarily, Math. 101 may be taken without credit to remove a deficiency in high school algebra, and Math. 102 may be taken without credit to remove a deficiency in high school geometry. Math. 101 and 102 will be discontinued after September 1961. A student with deficiencies must consult with the Assistant or Associate Dean concerning the appropriate course and procedure for removing his deficiency.



Mathematical Induction

The principle of mathematical induction is a method of proving that a statement is true for all natural numbers. It consists of two parts: the base case and the inductive step. The base case is the statement being proved for the first natural number, usually 1. The inductive step is the process of proving that if the statement is true for a natural number  $n$ , then it is also true for  $n+1$ . Once the base case and the inductive step are proved, the statement is true for all natural numbers.

A statement is true for all natural numbers if and only if it is true for the base case and the inductive step. This is the principle of mathematical induction.

The principle of mathematical induction can be used to prove many statements about natural numbers. For example, it can be used to prove that the sum of the first  $n$  natural numbers is  $\frac{n(n+1)}{2}$ . To prove this, we first prove the base case, which is that the sum of the first 1 natural number is  $\frac{1(1+1)}{2} = 1$ . Then we prove the inductive step, which is that if the sum of the first  $n$  natural numbers is  $\frac{n(n+1)}{2}$ , then the sum of the first  $n+1$  natural numbers is  $\frac{(n+1)(n+2)}{2}$ . Once these two steps are proved, the statement is true for all natural numbers.

There are two types of mathematical induction: weak induction and strong induction. Weak induction is the type of induction that is used in the example above. Strong induction is a type of induction in which the inductive step is proved by assuming that the statement is true for all natural numbers less than  $n+1$ , not just for  $n$ .

Mathematical induction is a powerful tool for proving statements about natural numbers. It is a method that is used in many areas of mathematics, including number theory, algebra, and geometry. It is a method that is used to prove that a statement is true for all natural numbers, not just for some natural numbers.

Conclusion

Mathematical induction is a method of proving that a statement is true for all natural numbers. It consists of two parts: the base case and the inductive step.

A statement is true for all natural numbers if and only if it is true for the base case and the inductive step. This is the principle of mathematical induction. The principle of mathematical induction can be used to prove many statements about natural numbers. For example, it can be used to prove that the sum of the first  $n$  natural numbers is  $\frac{n(n+1)}{2}$ . There are two types of mathematical induction: weak induction and strong induction. Mathematical induction is a powerful tool for proving statements about natural numbers.



## GENERAL CURRICULUM IN AGRICULTURE

This is a general curriculum in the sense that it provides for a common core program for the first two years. For the junior and senior years, the student may select one of the approved departmental majors or he may continue with a broad general program by selecting the general agriculture major. All students in agriculture pursue a similar general core program for the first two years except those in Agricultural Science, Dairy Technology, Floriculture and Ornamental Horticulture, Food Technology, Forestry, Home Economics, Horticultural Food Crops, and Restaurant Management.

Freshmen may enter this general curriculum without specifying a major. Transfer students entering this curriculum with 45 or more credit hours should indicate their proposed major on the Application for Admission blank. Each student must make his choice of major not later than the beginning of the junior year and notify the College office of his choice.

The purposes, objectives, and requirements of the various majors and options are outlined on the following pages.

The core program for the first two years includes all general University requirements as well as a broad foundation in basic sciences essential to a fuller understanding of agriculture. In addition, the student has considerable freedom of choice of introductory courses in agriculture. By proper choice of Group I courses, in line with the student's ultimate objective and major, the student is ready to proceed with more advanced courses in his junior and senior years. Agriculture 100, required of all freshmen in agriculture, is designed to assist the student in clarifying his objectives.

Upon completion of all requirements of this curriculum, with an approved major and a minimum of 126 semester hours of credit, the student is awarded the degree of Bachelor of Science in Agriculture.

Transfers should note that no credit is allowed for certain courses, such as Agricultural Economics 100 and Horticulture 100 for students with 60 or more credit hours. Agricultural Economics 220 or 230 may be substituted for Agricultural Economics 100, and Horticulture 242 or 262 may be substituted for Horticulture 100 and may be counted toward the fifteen hours required in Group 1, provided the course taken as a substitute is not needed to fulfill some other agriculture group requirement in the major or option.

Each student is encouraged to study the requirements of the various majors and options and to select the one which best fits his objectives prior to the beginning of his junior year. An appropriate adviser will then be assigned to assist him in planning his program for the junior and senior years.

Recommended or suggested electives are listed with each major. They are listed as a guide. Other courses than those shown may be taken as electives if more appropriate for the student's objective.

A general major is provided for those whose objectives do not properly fall within one of the approved departmental majors. Those who are preparing to teach vocational agriculture in high school must complete the general curriculum with a major in vocational agriculture.

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## For the degree of Bachelor of Science in Agriculture

Sample Program for First Two YearsFirst Year

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Bot. 100--General Botany	4	Chem. 101, 102, or 111--Gen. Chem. <sup>4/</sup>	3-5
Rhet. 101--Rhet. & Comp. <sup>1/</sup>	3	Rhet. 102--Rhet. & Comp. <sup>2/</sup>	3
Agr. 100--Lectures for Freshmen <sup>3/</sup>	0	Math. 111, 112, or 104--Alg. or Alg. and Trig. <sup>2/</sup>	
Agr. courses from Group I		or Agr. course from Group I	3-5
or Math. 111, or 112, or 104--Alg.		Zool. 104--Elementary Zoology	4
or Alg. and Trig. <sup>2/</sup>	3-5	Military (men)	1
Agr. course from Group I	3	Physical Education	(1)
Military (men)	1		
Physical Education	(1)		
Total	<u>15-17</u>	Total	<u>15-17</u>

Second Year

Chem. 132 or 133--Organic Chem. <sup>4/</sup>	3-5	Econ. 108--Elem. of Econ.	3
Geology 105--Agr. Geology	3	Speech 101--Prin. of Eff. Speaking <sup>1/</sup>	3
Two Agr. courses from Group I	6-7	Agr. course from Group I	3
Military (men)	1	Electives	6
Physical Education	(1)	Military (men)	1
		Physical Education	(1)
Total	<u>15-17</u>	Total	<u>17</u>

Group I - Agriculture prescribed. Agriculture 100 and a minimum of 15 hours from other courses listed below must be selected and should be completed during the first two years:

	<u>Hours</u>
Agr. 100--Lectures for Freshmen in Agriculture <sup>3/</sup>	0
Agr. Econ. 100--Introductory Agricultural Economics	3
Agr. Eng. 100--Engineering Applications in Agriculture	3
Agronomy 121--Crop Production	4
An. Sci. 100--Introduction to Animal Science	3
An. Sci. 102 or Da. Sci. 102--Feeds and Feeding	3
Da. Sci. 100--Introduction to Dairy Production	3
Forestry 100--Farm Forestry	3
Genetics (Agron. 110, An. Sci. 110, Da. Sci. 110, or Hort. 110)--Plant and Animal Genetics	3
Hort. 100--Introductory Horticulture	3

Junior and Senior Years

For junior and senior years, see approved majors. The general requirements in addition to the courses listed for the first two years include (1) completion of all prescribed courses listed for the major, (2) completion of at least 50 hours of agriculture courses, including prescribed and elective, (3) completion of at least twelve hours of humanities and social science (including those specifically prescribed in the student's major) and (4) completion of sufficient open electives to bring total hours to 126.



THE DEPARTMENT OF COMMERCE IS REQUESTING THAT YOU

STATEMENT OF FACTS

1934

NAME	ADDRESS	DATE	REMARKS
1	1000 1st St. N. W.	1/1/34	Received 1000 1st St. N. W.
2	1000 1st St. N. W.	1/1/34	Received 1000 1st St. N. W.
3	1000 1st St. N. W.	1/1/34	Received 1000 1st St. N. W.
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9	1000 1st St. N. W.	1/1/34	Received 1000 1st St. N. W.
10	1000 1st St. N. W.	1/1/34	Received 1000 1st St. N. W.

1935

1	1000 1st St. N. W.	1/1/35	Received 1000 1st St. N. W.
2	1000 1st St. N. W.	1/1/35	Received 1000 1st St. N. W.
3	1000 1st St. N. W.	1/1/35	Received 1000 1st St. N. W.
4	1000 1st St. N. W.	1/1/35	Received 1000 1st St. N. W.
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6	1000 1st St. N. W.	1/1/35	Received 1000 1st St. N. W.
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9	1000 1st St. N. W.	1/1/35	Received 1000 1st St. N. W.
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NOTE: - All entries should be made in the space provided for this purpose. Do not write in the space provided for this purpose. Do not write in the space provided for this purpose.

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STATEMENT OF FACTS

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HUMANITIES AND SOCIAL SCIENCES - A minimum of 12 hours from anthropology, art, economics, finance, foreign language, geography, history, landscape architecture, literature, music, philosophy, political science, psychology, religion, sociology, or speech. These courses will normally be taken during the junior-senior years.

- 1/ D. G. S. 111 and 112, Verbal Communications, both four-hour courses, may be substituted for Rhetoric 101, 102, and Speech 101.
- 2/ A student in this curriculum is required to complete either Mathematics 111, Algebra, 5 hours; or Mathematics 112, College Algebra, 3 hours; or Mathematics 104, Elements of Algebra and Trigonometry, 3 hours; or pass the placement examination in mathematics. (Mathematics 104 does not serve as a prerequisite for more advanced courses in mathematics and should not be taken by those who plan to take Mathematics 114, 122, or 123, or by those who plan to major in agricultural economics general option.) A student who passes the placement examination will not be required to take Mathematics 111, 112, or 104, but if he wishes he may take a more advanced course in mathematics. Student who enter the general curriculum with acceptable equivalent college credit in algebra are not required to take the placement examination or additional mathematics. See page 10 for additional details.
- 3/ A non-credit orientation course required of all freshmen in agriculture.
- 4/ One course in organic chemistry is required. For students preparing for graduate training in animal, plant, or soil science, Chemistry 101 or 102 and Chemistry 105 and 133 are recommended. Advisers may recommend this chemistry sequence for other students where appropriate to their aims and objectives in place of Chemistry 111 and Chemistry 132. Chemistry 111 and Chemistry 132 are terminal courses and satisfy the minimum chemistry requirements for graduation. Chemistry 105 is a prerequisite for Chemistry 133. Chemistry 132 is not a satisfactory prerequisite for Chemistry 350, 354, and 355, Biochemistry.





SUMMARY OF HOURS PRESCRIBED AND ELECTIVE  
FOR THE DEPARTMENTAL MAJORS

	1	2	3	4	5	6	7	8
	<u>Core program</u>		<u>Addi- tional</u>		<u>Humani- ties and Social Sciences</u>	<u>Addi- tional</u>	<u>Open</u>	
<u>Major</u>	<u>Agr. Pre- scribed</u>	<u>Non-Agr. Pre- scribed</u>	<u>Agr. Pre- scribed</u>	<u>Agr. Elec- tives</u>		<u>Non-Agr. Pre- scribed</u>	<u>Elec- tives</u>	<u>Total</u>
Agr. Econ.	15-16	33-42	17-20	18-14	12	5	26-17	126
Farm Mgmt. Option	15-16	33-42	22-28	13-6	12	-	31-22	126
Mktg. Option	15-16	33-42	17-20	18-14	12	6	25-16	126
Rur. Soc. Option	15-16	33-42	17-20	18-14	12	-	31-22	126
Agr. Mechan.	15-16	33-42	23-26	12-8	12	15	16-7	126
Agron.	15-16	33-42	25-32	10-2	12	-	31-22	126
An. Sci.	15-16	33-42	23-34	12-0	12	6	25-16	126
Da. Sci.	15-16	33-42	23-32	12-2	12	6	25-16	126
Hort.	15-16	33-42	26-32	9-2	12	5	26-17	126
Voc. Agr.	15-16	33-42	21-27	14-7	12	19	12-3	126
Gen Agr.	15-16	33-42	23	12-11	12	-	31-22	126

Col. 1. Range depends upon the courses selected from Group 1.

Col. 2. Range depends upon selection of chemistry and mathematics courses.

Col. 3. Range depends upon additional Group 1 courses required for major.

Col. 4. Range depends upon hours of agriculture required to total 50.

Col. 7. Range depends upon additional hours required to equal 126.

The hours prescribed by various groups will vary somewhat from these figures, depending upon the exact number of hours transferred and accepted in substitution for prescribed courses.

# TABLE 1. SUMMARY OF DATA FOR THE 1960-1961 SEASON

Year	Month	Day	Time	Location	Observer	Species	Count	Notes
1960	Jan	1	08:00	Point A	J. Smith	Red-tailed Hawk	1	
1960	Jan	2	09:15	Point A	J. Smith	Red-tailed Hawk	1	
1960	Jan	3	10:30	Point A	J. Smith	Red-tailed Hawk	1	
1960	Jan	4	11:45	Point A	J. Smith	Red-tailed Hawk	1	
1960	Jan	5	13:00	Point A	J. Smith	Red-tailed Hawk	1	
1960	Jan	6	14:15	Point A	J. Smith	Red-tailed Hawk	1	
1960	Jan	7	15:30	Point A	J. Smith	Red-tailed Hawk	1	
1960	Jan	8	16:45	Point A	J. Smith	Red-tailed Hawk	1	
1960	Jan	9	18:00	Point A	J. Smith	Red-tailed Hawk	1	
1960	Jan	10	19:15	Point A	J. Smith	Red-tailed Hawk	1	
1960	Jan	11	20:30	Point A	J. Smith	Red-tailed Hawk	1	
1960	Jan	12	21:45	Point A	J. Smith	Red-tailed Hawk	1	
1960	Jan	13	23:00	Point A	J. Smith	Red-tailed Hawk	1	
1960	Jan	14	00:15	Point A	J. Smith	Red-tailed Hawk	1	
1960	Jan	15	01:30	Point A	J. Smith	Red-tailed Hawk	1	
1960	Jan	16	02:45	Point A	J. Smith	Red-tailed Hawk	1	
1960	Jan	17	04:00	Point A	J. Smith	Red-tailed Hawk	1	
1960	Jan	18	05:15	Point A	J. Smith	Red-tailed Hawk	1	
1960	Jan	19	06:30	Point A	J. Smith	Red-tailed Hawk	1	
1960	Jan	20	07:45	Point A	J. Smith	Red-tailed Hawk	1	
1960	Jan	21	09:00	Point A	J. Smith	Red-tailed Hawk	1	
1960	Jan	22	10:15	Point A	J. Smith	Red-tailed Hawk	1	
1960	Jan	23	11:30	Point A	J. Smith	Red-tailed Hawk	1	
1960	Jan	24	12:45	Point A	J. Smith	Red-tailed Hawk	1	
1960	Jan	25	14:00	Point A	J. Smith	Red-tailed Hawk	1	
1960	Jan	26	15:15	Point A	J. Smith	Red-tailed Hawk	1	
1960	Jan	27	16:30	Point A	J. Smith	Red-tailed Hawk	1	
1960	Jan	28	17:45	Point A	J. Smith	Red-tailed Hawk	1	
1960	Jan	29	19:00	Point A	J. Smith	Red-tailed Hawk	1	
1960	Jan	30	20:15	Point A	J. Smith	Red-tailed Hawk	1	
1960	Jan	31	21:30	Point A	J. Smith	Red-tailed Hawk	1	

Table 1. Summary of data for the 1960-1961 season.

Table 2. Summary of data for the 1961-1962 season.

Table 3. Summary of data for the 1962-1963 season.

Table 4. Summary of data for the 1963-1964 season.

Table 5. Summary of data for the 1964-1965 season.

The data presented in this report were collected by the author and are not to be used for any other purpose without the author's permission.

## MAJOR IN AGRICULTURAL ECONOMICS--FARM MANAGEMENT OPTION

This option is designed particularly for persons interested in farming or in managing agricultural properties for others. It is also appropriate for men interested in agricultural positions with banks, credit agencies, and other agricultural institutions.

For core requirements see page 12. Other courses required for this option are:

<u>Prescribed Courses in Agriculture</u>	<u>Semester</u>	<u>Hours</u>
Agr. Economics 100 <sup>1</sup> --Introd. Agricultural Economics (I,II)		3
An. Sci. or Da. Sci. 102--Feeds and Feeding (I,II)		3
Agronomy 201--Soils (I,II)		5
Agr. Economics 220--Farm Management (I,II)		3
Agr. Economics 324--Farm Operation (II)		3
Agr. Economics 325--Advanced Farm Management (I)		3
Additional Agricultural Economics		8

Elective courses in Agriculture to bring total Agriculture to a minimum of fifty hours

Humanities and Social Sciences (see page 13 for definition) 12

Must include:

Economics 109--Principles of Economics I, II 3

Open Electives to Bring Total Hours to: 126

Suggested Agriculture Electives

Agricultural Economics 230, 302, 303, 305, 312, 341, 342  
 Agricultural Engineering 252, 272  
 Agronomy 301, 306  
 Animal or Dairy Science (one or more courses)  
 Entomology 101  
 Rural Sociology 117 (students with credit in Soc. 100 may wish to substitute Rural Soc. 277, 317, or 377)

Suggested Non-Agriculture Electives

Accountancy 201  
 Economics 170  
 Geography 105  
 History 152  
 Mathematics 114  
 Philosophy 101, 102  
 Political Science 150  
 Psychology 100, 255  
 Rhetoric 151

<sup>1</sup>/ Juniors or seniors should substitute Agr. Econ. 230.



# Table of Contents

This table of contents is designed to provide a comprehensive overview of the system's structure and components. It is organized into sections that correspond to the major functional areas of the system, allowing users to quickly locate the information they need. The table includes page numbers for each section, facilitating easy navigation through the document.

The following table provides a detailed breakdown of the system's components and their respective page numbers.

1	Introduction
2	System Overview
3	Architecture
4	Components
5	Installation
6	Configuration
7	Operation
8	Maintenance
9	Security
10	Performance
11	Compliance
12	Conclusion
13	Appendix A
14	Appendix B
15	Appendix C
16	Appendix D
17	Appendix E
18	Appendix F
19	Appendix G
20	Appendix H
21	Appendix I
22	Appendix J
23	Appendix K
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27	Appendix O
28	Appendix P
29	Appendix Q
30	Appendix R
31	Appendix S
32	Appendix T
33	Appendix U
34	Appendix V
35	Appendix W
36	Appendix X
37	Appendix Y
38	Appendix Z

General Curriculum with Major in AGRICULTURAL ECONOMICS  
Farm Management Option  
(for degree of B.S. in Agriculture)

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_

DATE \_\_\_\_\_

AGRICULTURE PRESCRIBED:	HOURS	GRADE	5 HOURS OF AGR. ECON. ELECTIVES (Total Agr. Econ. must equal 20 hours)		
Agr. 100	0				
Agr. Econ. 100	3				
Agr. Econ. 220	3				
Agr. Econ. 324	3				
Agr. Econ. 325	3				
Agron. 201	5				
An. Sci. 102 or Da. Sci. 102	3		AGRICULTURE ELECTIVES--TOTAL Agr. prescribed and electives must equal at least 50 hours.		At least 25 hours of Agr. must be com- pleted in residence.
9 HOURS FROM:					Transfer:
Agr. Eng. 101	3				Residence:
Agron. 121	4				Earned:
An. Sci. 100	3				To be earned:
D. Sci. 100	3				
Forestry 100	3				
Hort. 100	3				
Agron. 110, An. Sci. 110, Da. Sci. 110, or Hort. 110	3				
NON-AGRICULTURE PRESCRIBED:					
Botany 100	4				
Chem. 101, 102, or 111	3-5				
Chem. 132 or 133	3-5				
Econ. 108	3		HUMANITIES AND SOCIAL SCIENCES--12 hours from anthro., art, econ., fin., for. lang., geog., hist., land. arch., lit., music, phil., pol. sci., psych., religion, soc., and speech.		
Geology 105	3		MUST INCLUDE:		Earned:
Math. Placement Test or Math. 111, 112, or 104	3-5		Econ. 109	3	To be earned:
Rhetoric 101	3				
Rhetoric 102	3				
Speech 101	3		OPEN ELECTIVES:		
Zoology 104	4				TOTAL HOURS
Mil.-Mil.	1-1				
Mil.-Mil.	1-1				
P.E.-P.E.	(1-1)				
P.E.-P.E.	(1-1)				

126 hours, including military and P.E., are required for the degree as outlined above. Minimum average of 3.0 is required for graduation. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at U. of I. and a combined average of 3.0 for transfer and University of Illinois work.

General Committee on the Study of the  
 (The House of Representatives)

OFFICE OF THE SECRETARY  
 HOUSE OF REPRESENTATIVES

NAME  
 DATE

GENERAL COMMITTEE ON THE STUDY OF THE			HOUSE OF REPRESENTATIVES			
SUBCOMMITTEE ON THE STUDY OF THE			NAME	DATE		
SUBCOMMITTEE ON THE STUDY OF THE	GENERAL COMMITTEE ON THE STUDY OF THE	HOUSE OF REPRESENTATIVES	Mr. [Name]	[Date]		
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			Mr. [Name]	[Date]		

The following is a list of the members of the General Committee on the Study of the House of Representatives, and of the subcommittees thereof, as of the date of the report of the Committee on the Study of the House of Representatives, dated June 1, 1900.



## MAJOR IN AGRICULTURAL ECONOMICS--AGRICULTURAL MARKETING OPTION

Students interested in marketing farm products and farm supplies may major under this option. Numerous opportunities exist for agricultural college graduates in salesmanship, in price analysis, and in the management and operational phases of agricultural and related businesses.

For common core requirements see page 12. Other courses required for this option are:

<u>Prescribed Courses in Agriculture</u>	<u>Semester</u>	<u>Hours</u>
Agr. Economics 100 <sup>1</sup> --Intro. Agricultural Economics (I,II)		3
Agr. Economics 230--Marketing of Agricultural Products (I,II)		3
Six hours from the following:		
Agr. Econ. 238--Distribution of Farm Supplies (II)		3
Agr. Economics 331--Grain Marketing (I)		3
Agr. Economics 332--Livestock Marketing (II)		3
Agr. Economics 334--Marketing Dairy Products (II)		3
Agr. Economics 335--Economics of Food Distribution (I)		3
Additional Agricultural Economics		8
Elective courses in Agriculture to bring total Agriculture to a minimum of fifty hours		
<u>Humanities and Social Sciences</u> (see page 13 for definition)		12
Must include:		
Economics 109--Principles of Economics (I,II)		3
Economics 170--Elements of Statistics (I,II)		3
Economics 313--Economics of Consumption (II)		3
<u>Non-Agriculture Prescribed</u>		
Accountancy 201--Fundamentals of Accounting (I,II)		3
Rhetoric 151--Business Letter Writing (I,II)		3
<u>Open Electives to Bring Total Hours to:</u>		126
<u>Suggested Agriculture Electives</u>		
Agricultural Economics 220, 305, 341, 342		
Agronomy 306, 321		
Animal Science or Dairy Science (one or more courses)		
Food Technology 260 or Animal Science 104		
Horticulture 242 or 262		
Rural Sociology 117 <sup>2</sup> or 297		
<u>Suggested Non-Agriculture Electives</u>		
Geography 105		
Marketing 211		

<sup>1/</sup> Juniors and seniors should substitute Agr. Econ. 220 for Agr. Econ. 100.

<sup>2/</sup> Students with credit in Soc. 100 may take Rural Soc. 277, 317, or 377 instead of Rural Soc. 117.





General Curriculum with Major in AGRICULTURAL ECONOMICS  
Agricultural Marketing Option  
(for degree of B.S. in Agriculture)

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_

DATE \_\_\_\_\_

AGRICULTURE PRESCRIBED:	HOURS	GRADE	6 HOURS FROM: Agr. Econ. 238; 331; 332; 334; 335		
Agr. 100	0				
Agr. Econ. 100	3				
Agr. Econ. 230	3				
12 HOURS FROM:			8 HOURS OF AGR. ECON. ELECTIVES (Total Agr. Econ. must equal 20 hours.)		
Agr. Eng. 100	3				
Agron. 121	4				
An. Sci. 100	3				
An. Sci. 102 or Da. Sci. 102	3				At least 25 hours of Agr. must be com- pleted in
Da. Sci. 100	3		AGRICULTURE ELECTIVES--Total		residence.
Forestry 100	3		Agr. prescribed and electives		
Hort. 100	3		must equal at least 50 hours.		Transfer:
Agron. 110, An. Sci. 110, Da. Sci. 110, or Hort. 110	3				Residence:
NON-AGRICULTURE PRESCRIBED:					
Accy. 201	3				Earned:
Botany 100	4				To be earned:
Chem. 101, 102, or 111	3-5				
Chem. 132 or 133	3-5				
Econ. 108	3		HUMANITIES AND SOCIAL SCIENCES--12 hours from: anthro., art, econ., finance, for. lang, geog, hist, land arch, lit., music, phil., pol. sci., psych., religion, soc., and speech.		
Geology 105	3		MUST INCLUDE:		Earned:
Math. Placement Test or Math 111, 112, or 104	3-5		Econ. 109	3	
			Econ. 170	3	To be
Rhetoric 101	3		Econ. 313	3	earned:
Rhetoric 102	3				
Rhet. 151	3		OPEN ELECTIVES:		
Speech 101	3				TOTAL HOURS
Zoology 104	4				
Mil.-Mil.	1-1				
Mil.-Mil.	1-1				
P.E.-P.E.	(1-1)				
P.E.-P.E.	(1-1)				

126 hours, including military and excluding P.E., are required for the degree as outlined above. Minimum average of 3.0 is required for graduation. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at U. of I. and a combined average of 3.0 for transfer and U. of I. work.





## MAJOR IN AGRICULTURAL ECONOMICS--GENERAL OPTION

This option is designed for students who desire training in agricultural economics without specializing in any particular subject-matter area. It is also appropriate as preparation for analytical and statistical work with agricultural businesses or public agencies.

For core requirements see page 12. Other courses required for this option are:

<u>Prescribed courses in Agriculture</u>	<u>Semester</u>	<u>Hours</u>
Agr. Economics 100 <sup>1</sup> / <sub>2</sub> --Introductory Agricultural Economics (I,II)		3
Nine hours from the following:		
Rural Soc. 117--Introduction to Rural Sociology (I,II)		3
Agr. Economics 218--Land Economics (II)		3
Agr. Economics 220--Farm Management (I,II)		3
Agr. Economics 230--Marketing of Agricultural Products (I,II)		3
Agr. Economics 302--Financing Agriculture (II)		3
Agr. Economics 303--Agricultural Law (I,II)		3
Agr. Economics 305--Agricultural Development and Policies (I)		3
Agr. Economics 341--Agricultural Statistics (I)		3
Additional Agricultural Economics		8
Elective courses in Agr. to bring total Agr. to a minimum of 50 hours		
<u>Humanities and Social Sciences</u> (see page 13 for definition)		12
Must include:		
Economics 109--Principles of Economics (I, II)		3
Pol. Sci. 150--American Government: Organization and Powers (I, II)		3
One of the following:		
Philos. 101--Introduction to Philosophy (I, II)		3
Philos. 102--Logic (I, II)		3
Philos. 104--Philosophy of Democracy (II)		4
<u>Non-Agriculture Prescribed</u>		
Accy. 201--Fundamentals of Accounting (I, II)		3
Math. 114 <sup>2</sup> / <sub>2</sub> --Plane Trigonometry (I, II)		2
<u>Open Electives to Bring Total Hours to:</u>		126
<u>Suggested Agriculture Electives</u>		
Agricultural Economics 312, 324, 325, 342		
Agricultural Economics--one or more commodity marketing courses		
Agricultural Engineering 131		
Agriculture 114		
Agronomy 201, 306		
Animal Science or Dairy Science (one or more courses)		
Rural Sociology 277		
<u>Suggested Non-Agriculture Electives</u>		
Economics 214		
Psychology 100		
Rhetoric 151		
Speech 113		

<sup>1</sup>/ Juniors and seniors should substitute Agr. Econ. 220 or 230.

<sup>2</sup>/ Students in this option who do not pass the Mathematics Placement Test should take Math. 111 or 112, but not 104.





General Curriculum with Major in AGRICULTURAL ECONOMICS  
General Option  
(for degree of B.S. in Agriculture)

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_

DATE \_\_\_\_\_

AGRICULTURE PRESCRIBED:		HOURS	GRADE	9 HOURS FROM: Rural Soc. 117, Agr. Econ. 218, 220, 230, 302, 303, 305, 341.			At least 25 hours of Agr. must be completed in residence.
Agr. 100		0					
Agr. Econ. 100		3					
12 HOURS FROM:							
Agr. Eng. 100		3					
Agron. 121		4					8 HOURS OF AGR. ECON. ELECTIVES (Total Agr. Econ. must equal 20 hrs.)
An. Sci. 100		3					
An. Sci. 102 or		3					
Da. Sci. 102		3					
Da. Sci. 100		3					
Forestry 100		3					AGRICULTURE ELECTIVES--Total Agr. prescribed and electives must equal at least 50 hours.
Hort. 100		3					
Agron. 110, An. Sci. 110,		3					
Da. Sci. 110, or Hort. 110		3					
NON-AGRICULTURE PRESCRIBED:							
Accy. 201		3					Transfer:
Botany 100		4					Residence:
Chem. 101, 102, or 111		3-5					Earned:
Chem. 132 or 133		3-5					To be earned:
Econ. 108		3					HUMANITIES AND SOCIAL SCIENCES--12 hours from anthro., art, econ., fin., for. lang., geog., hist., land. arch., lit., music, phil., pol. sci., psych., religion, soc., and speech. MUST INCLUDE: Econ. 109 3 Pol. Sci. 150 3 Philos. 101, 102, or 104 3-4
Geology 105		3					
Math. Placement Test or Math. 111 or 112		3-5					
Math. 114		2					
Rhetoric 101		3					
Rhetoric 102		3					OPEN ELECTIVES:
Speech 101		3					
Zoology 104		4					
Mil.-Mil.		1-1					
Mil.-Mil.		1-1					
P.E.-P.E.		(1-1)					TOTAL HOURS
P.E.-P.E.		(1-1)					

126 hours, including military and excluding P.E., are required for the degree as outlined above. Minimum average of 3.0 is required for graduation. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at U. of I. and a combined average of 3.0 for transfer and U. of I. work.

REPORT OF THE COMMISSIONER OF THE GENERAL LAND OFFICE  
 FOR THE YEAR 1897  
 (Continued from page 1)

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96	100	96	100	96	100
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100	100	100	100	100	100

THE COMMISSIONER OF THE GENERAL LAND OFFICE  
 HAS THE HONOR TO ACKNOWLEDGE THE RECEIPT OF THE  
 FOLLOWING MONIES FOR THE YEAR 1897  
 AND TO CERTIFY THAT THE SAME HAVE BEEN  
 DEPOSITED IN THE TREASURY OF THE STATE OF TEXAS  
 FOR THE YEAR 1897

## MAJOR IN AGRICULTURAL ECONOMICS--RURAL SOCIOLOGY OPTION

The rural sociology option is designed primarily to prepare students for effective rural group leadership in a variety of organizations and agencies serving agriculture and rural communities.

For core requirements see page 12. Other courses required for this option are:

<u>Prescribed Courses in Agriculture</u>	<u>Semester</u>	<u>Hours</u>
Agr. Econ. 100 <sup>1</sup> / <sub>2</sub> -Introductory Agricultural Economics (I, II)		3
Rural Soc. 117 <sup>2</sup> / <sub>2</sub> -Intro. to Rural Sociology (I, II)		3
Rural Soc. 277--Rural Social Problems (II)		3
Rural Soc. 297--Farmer Movements, Farmers' Organizations and Social Policy (I)		3
Additional Rural Sociology or Agricultural Economics		8

Elective courses in Agriculture to bring total Agriculture to a minimum of fifty hours.

Humanities and Social Sciences (see page 13 for definition) 12

Must include:

Economics 109--Principles of Economics (I, II)	3
Soc. 222--Theory and Analysis of Formal Organization (I, II)	3
Soc. 281--Contemporary Sociology (I,II)	3

Open Electives to Bring Total Hours to: 126

Suggested Agriculture Electives

Agricultural Economics 218, 220, 230, 273, 303, 305, 312, 341, 342  
 Agriculture 114  
 Agronomy 321  
 Animal Science or Dairy Science (one or more courses)

Suggested Non-Agriculture Electives

Anthropology 103  
 Economics 214, 300, 336  
 Education 315  
 Geography 104  
 Philosophy 101  
 Pol. Sci. 150  
 Psychology 100, 255  
 Sociology 212, 220, 270  
 Speech 113

<sup>1</sup>/ Juniors and seniors should substitute Agr. Econ. 220 or 230.

<sup>2</sup>/ Students with credit in Sociol. 100 should substitute Rural Sociol. 317 or 377.





General Curriculum with Major in AGRICULTURAL ECONOMICS  
Rural Sociology Option  
(for degree of B.S. in Agriculture)

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_

DATE \_\_\_\_\_

AGRICULTURE PRESCRIBED:		HOURS	GRADE	8 HOURS OF RUR. SOC. OR AGR. ECON. ELECTIVES (Total Agr. Econ. must equal 20 hours)		
Agr. 100		0				
Agr. Econ. 100		3				
Rur. Soc. 117		3				
Rur. Soc. 277		3				
Rur. Soc. 297		3				
12 HOURS FROM:				AGRICULTURE ELECTIVES--Total Agr. prescribed and electives must equal at least 50 hours		At least 25 hours of Agr. must be com- pleted in residence.
Agr. Eng. 100		3				Transfer:
Agron. 121		4				
An. Sci. 100		3				Residence:
An. Sci. 102 or Da. Sci. 102		3				
Da. Sci. 100		3				Earned:
Forestry 100		3				
Hort. 100		3				To be earned:
Agron. 110, An. Sci. 110, Da. Sci. 110, or Hort. 110		3				
NON-AGRICULTURE PRESCRIBED:				HUMANITIES AND SOCIAL SCIENCES--12 hours from: anthro., art, econ., fin., for. lang., geog., hist., land. arch., lit., music, phil., pol. sci., psych., religion, soc., and speech.		
Botany 100		4		MUST INCLUDE:		Earned:
Chem. 101, 102, or 111		3-5		Econ. 109	3	To be earned:
Chem. 132 or 133		3-5		Soc. 222	3	
Econ. 108		3		Soc. 281	3	
Geology 105		3		OPEN ELECTIVES		
Math. Placement Test or Math. 111, 112, or 104		3-5		TOTAL HOURS		
Rhetoric 101		3				
Rhetoric 102		3				
Speech 101		3				
Zoology 104		4				
Mil.-Mil.		1-1				
Mil.-Mil.		1-1				
P.E.-P.E.		(1-1)				
P.E.-P.E.		(1-1)				

126 hours, including military and excluding P.E., are required for the degree as outlined above. Minimum average of 3.0 is required for graduation. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at U. of I. and a combined average of 3.0 for transfer and U. of I. work.





## MAJOR IN AGRICULTURAL MECHANIZATION

For students who are interested in non-technical emphasis in the areas of farm structures, conservation, farm power and farm machinery, in preparation for work with service organizations, retail dealers, power suppliers, contractors, farm management companies, or as farm operators. This major is administered in the College of Agriculture by the Department of Agricultural Engineering. Students interested in a program leading to a degree in Agricultural Engineering should follow the four-year program in the College of Engineering or the five-year combined program in Agricultural Science and Agricultural Engineering administered jointly by the College of Agriculture and the College of Engineering (see page 44).

For common core requirements of this major see page 12. Other courses required for this major are:

<u>Prescribed Courses in Agriculture</u>	<u>'Semester</u>	<u>Hours</u>
Agr. Eng. 100--Engineering Applications in Agriculture (I, II)	(I, II)	3
Agr. Economics 220--Farm Management (I, II)		3
Agronomy 201--Soils (I, II)		5
Fifteen hours from the following:		
Agr. Eng. 131--Field and Power-Driven Machinery (I)		3
Agr. Eng. 142--Gas Engines and Tractors (II)		3
Agr. Eng. 200--Farm Shop: Carpentry and Construction (I, II)		3
Agr. Eng. 241--Electric Power for the Farm (I)		3
Agr. Eng. 242--Gasoline, Liquefied Petroleum Gas, and Diesel Tractors (I)		3
Agr. Eng. 252--Mechanics of Soil and Water Conservation (II)		3
Agr. Eng. 272--Farm Buildings (II)		3
Agr. Eng. 300--Special Problems (I, II)		3
Agr. Eng. 361--Development and Function of Family Housing (II)		3
Agr. Eng. 381--Farm Electrical Equipment (II)		3

Elective courses in Agriculture to bring total Agriculture to a minimum of fifty hours.

<u>Humanities and Social Sciences</u> (see page 13 for definition)	12
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Prescribed Non-Agriculture Courses

Fifteen hours from the following:

Accountancy 201--Fundamentals of Accounting (I, II)	3
Business Law 261--Summary of Business Law (I, II)	3
Management 101--Industrial Organization and Management (I, II)	3
Management 248--Personnel Administration (I, II)	3
Marketing 101--Principles of Marketing (I, II)	3
Marketing 211--Principles of Retailing (I, II)	3
Marketing 212--Retail Sales Promotion (I, II)	2
Marketing 271--Salesmanship (I, II)	2
Rhetoric 151--Business Letter Writing (I, II)	3
Rhetoric 271--Sales Writing (Journ. 288, Mktg. 288) (I, II)	2

<u>Open Electives to Bring Total Hours to:</u>	126
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Recommended Agriculture Electives

Agr. Econ. 302, 303, 312, 324, 325, 341, 342
Agronomy 305, 306, 307, 311





NAME

DATE \_\_\_\_\_

AGRICULTURE PRESCRIBED:	HOURS	GRADE	15 HOURS FROM: Agr. Eng. 131, 142, 200, 241, 242, 252, 272, 300, 361, 381			
Agr. 100	0					
Agr. Econ. 220	3					
Agr. Eng. 100	3					
Agron. 201	5					
12 HOURS FROM:						
Agr. Econ. 100	3					At least 25
Agron. 121	4					hours of Agr.
An. Sci. 100	3					must be com-
An. Sci. 102 or	3		AGRICULTURE ELECTIVE--Total Agr.			pleted in
Da. Sci. 102			prescribed and electives must			residence.
Da. Sci. 100	3		equal at least 50 hours.			
Forestry 100	3					Transfer:
Hort. 100	3					
Agron. 110, An. Sci. 110,	3					Residence:
Da. Sci. 110, or Hort. 110						
						Earned:
						To be
						earned:
NON-AGRICULTURE PRESCRIBED:			15 HOURS FROM: Accy. 201; Bus. Law 261, Mgmt. 101, 248; Mktg. 101, 211, 212, 271; Rhet. 151, 271:			
Botany 100	4					
Chem. 101, 102, or 111	3-5					Earned:
Chem. 132 or 133	3-5					
Econ. 108	3					To be
Geology 105	3					earned:
Math. Placement Test or						
Math. 111, 112, or 104	3-5					
			HUMANITIES AND SOCIAL SCIENCES--12 hours from:			
			anthro., art, econ., fin., for. lang, geog., hist.,			
Rhetoric 101	3		land. arch., lit., music, phil., pol. sci.,			
Rhetoric 102	3		psych., religion, soc., and speech.			Earned:
						To be
						earned:
Speech 101	3					
Zoology 104	4		OPEN ELECTIVES:			
Mil.-Mil.	1-1					TOTAL HOURS
Mil.-Mil.	1-1					
P.E.-P.E.	(1-1)					
P.E.-P.E.	(1-1)					

126 hours, including military and excluding P.E., are required for the degree as outlined above. Minimum average of 3.0 is required for graduation. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at U. of I. and a combined average of 3.0 for transfer and University of Illinois work.



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The following table shows the results of the study. The first column shows the subject, the second column shows the topic, and the third column shows the results. The results are presented in a table format, with the subject and topic in the first two columns, and the results in the third column. The results are presented in a table format, with the subject and topic in the first two columns, and the results in the third column.

## General Curriculum in Agriculture, cont.

## MAJOR IN AGRONOMY--OPTIONS IN CROPS OR SOILS

This major is designed for students who wish to specialize in crops and/or soils. For those who may desire later to pursue graduate work, adequate training may be obtained by suitable choices of electives within the framework of this major, or in the agricultural science curriculum.

For common core requirements see page 12. Other courses required in this major are:

<u>Prescribed Courses in Agriculture</u>	<u>Semester</u>	<u>Hours</u>
Agronomy 121--Crop Production (I, II)		4
Agronomy 110 <sup>1</sup> --Plant and Animal Genetics (I, II)		3
Agronomy 201--Soils (I, II)		5
Agronomy 302--Role of Microorganisms in Soil Fertility (I)		3
Agronomy 311--Physical Edaphology (II)		3
Agronomy 321--Crop Ecology (I)		3
Agronomy 377 <sup>1</sup> --Diseases of Field Crops (II)		3
Agronomy electives (all Agronomy majors must complete twenty hours of Agronomy in addition to Agronomy 121 and 201)		5 to 11

Elective courses in Agriculture to bring total Agriculture to a minimum of fifty hours.

<u>Humanities and Social Sciences</u> (see page 13 for definition)	12
Must include <u>one</u> of the following:	
History 152--History of the United States, 1865 to Present (I, II)	3
or Pol. Sci. 150--American Government: Organization and Powers (I, II)	3

<u>Open Electives to Bring Total Hours to:</u>	126
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Suggested Agriculture Electives

Agronomy courses other than those listed or taken to satisfy the requirements

Agriculture 216

Agricultural Economics 220, 325, 303

Agricultural Engineering 252

Animal Science 201

Suggested Non-Agriculture Electives

Botany 130, 160, 226, 304, 320

Chemistry 105, 122, 354, or 350 and 355

English 304

Mathematics 117<sup>1</sup>/, 127<sup>2</sup>/

Physics 101, 102

1/ Agronomy 110 and 377 are required in the crops option only.

2/ Students who have completed Mathematics 111 or 112 or their equivalent should take Mathematics 114, 122, and 132 rather than Mathematics 117 and 127

THE BUREAU OF LAND MANAGEMENT is pleased to announce the results of the survey of the public lands in the State of New Mexico for the year 1904. The survey was conducted by the Bureau of Land Management, and the results are given in this report. The survey was made for the purpose of determining the extent and location of the public lands in the State of New Mexico, and for the purpose of determining the value of the same. The results of the survey are given in this report, and are in accordance with the facts and circumstances of the case.

W. A. R. 1905

BUREAU OF LAND MANAGEMENT	
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General Curriculum with Major in AGRONOMY  
Crops or Soils Option  
(for degree of B.S. in Agriculture)

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_

DATE \_\_\_\_\_

AGRICULTURE PRESCRIBED:		HOURS	GRADE	OTHER AGRONOMY COURSES--5 hours for Crops option; 11 hours for Soils option; Agron. credits must total 20 hrs. exclusive of Agron. 121 and 201.		
Agr. 100		0				
*Agron. 110		3				
Agron. 121		4				
Agron. 201		5				
Agron. 302		3				
Agron. 311		3				
Agron. 321		3				
*Agron. 377		3				
*Required in Crops Option Only				AGRICULTURE ELECTIVES--Total Agr. prescribed and electives must equal at least 50 hours.		
11 HOURS FROM:						At least 25 hours of Agr. must be completed in residence.
Agr. Econ. 100		3				Transfer:
Agr. Eng. 100		3				Residence:
Agron. 110		3				Earned:
An. Sci. 100		3				
An. Sci. 102 or		3				
Da. Sci. 102		3				
Da. Sci. 100		3				
Forestry 100		3				
Hort. 100		3				
NON-AGRICULTURE PRESCRIBED:						To be earned:
Botany 100		4				
Chem. 101, 102, or 111		3-5		HUMANITIES AND SOCIAL SCIENCES--12 hours from anthro., art, econ, fin., for. lang., geog., hist., land. arch., lit., music, phil., pol. sci., psych., religion, soc., and speech.		
Chem. 132 or 133		3-5		MUST INCLUDE:		
Econ. 108		3		Hist. 152 or	3	
Geology 105		3		Pol. Sci. 150	3	
Math. Placement Test or						Earned:
Math. 111, 112, or 104		3-5				To be earned:
Rhetoric 101		3				
Rhetoric 102		3				
				OPEN ELECTIVES:		
Speech 101		3				TOTAL HOURS
Zoology 104		4				
Mil.-Mil.		1-1				
Mil.-Mil.		1-1				
P.E.-P.E.		(1-1)				
P.E.-P.E.		(1-1)				

126 hours, including military and excluding P.E., are required for the degree as outlined above. Minimum average of 3.0 is required for graduation. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at U. of I. and a combined average of 3.0 for transfer and U. of I. work.

FEDERAL BUREAU OF INVESTIGATION  
 DEPARTMENT OF JUSTICE  
 (The Bureau is a part of the Department)

Division of Investigation  
 Washington, D. C.

Date  
 Filed

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## MAJOR IN ANIMAL SCIENCE

For students interested in preparing for work in the fields of animal feeding and nutrition, animal breeding and genetics, animal production, or related fields of the livestock and poultry industry.

For common core requirements see page 12. Other courses required for this major are:

<u>Prescribed Courses in Agriculture</u>	<u>Semester</u>	<u>Hours</u>
Animal Science 100--Introduction to Animal Science (I, II)		3
Animal Science 102--Feeds and Feeding (I, II)		3
Animal Science 110--Plant and Animal Genetics (I, II)		3
Agronomy 201--Soils (I, II)		5
Animal Science 204--Evaluation, Slaughtering and Processing of Meat Animals (II)		3
Animal Science 305--Genetics and Animal Improvement (II)		3
Animal Science 332--Livestock Marketing (II)		3
Animal Nutrition 301--Introduction to Animal Nutrition (I)		3
Two of the following:		
Animal Science 206--Light Horses (II)		3
Animal Science 301--Beef Production (I, II)		3
Animal Science 302--Sheep Production (II)		3 or 4
Animal Science 303--Pork Production (I, II)		3
Animal Science 304--Poultry Management (II)		3 or 4

Elective courses in Agriculture to bring total Agriculture to a minimum of fifty hours

Humanities and Social Sciences (see page 13 for definition) 12

Prescribed Non-Agriculture Courses

Veterinary Pathology and Hygiene 105--Animal Hygiene (I)	3
Vet. Phys. and Pharm. 202--Physiology of Domestic Animals (I)	3

Open Electives to Bring Total Hours to: 126

Recommended Agriculture Electives

Animal Science courses other than those listed or taken to satisfy the requirements.  
 Agricultural Economics 220, 303  
 Agriculture 114, 216  
 Agronomy 322  
 Dairy Science 330, 381  
 Entomology 101

Recommended Non-Agriculture Electives

Bacteriology 104 or 300  
 Chemistry 105, 122, 350, and 355  
 Mathematics 114, 122 or 123, and 132 or 133  
 Physics 101 and 102  
 Zoology 132 and 333



HOW TO APPLY

The following information is necessary for the filling of forms and should be read carefully and followed exactly as given. It is intended for the use of the applicant only. The forms are prepared in accordance with the instructions given.

1. Fill in the name of the applicant in full, as it appears on the birth certificate, in the space provided.

2. Fill in the date of birth of the applicant in full, as it appears on the birth certificate, in the space provided.

3. Fill in the sex of the applicant in the space provided.

4. Fill in the occupation of the applicant in the space provided.

5. Fill in the name of the applicant's father in full, as it appears on the birth certificate, in the space provided.

6. Fill in the name of the applicant's mother in full, as it appears on the birth certificate, in the space provided.

7. Fill in the name of the applicant's spouse in full, as it appears on the birth certificate, in the space provided.

8. Fill in the name of the applicant's children in full, as it appears on the birth certificate, in the space provided.

9. Fill in the name of the applicant's parents in full, as it appears on the birth certificate, in the space provided.

10. Fill in the name of the applicant's grandparents in full, as it appears on the birth certificate, in the space provided.

11. Fill in the name of the applicant's great-grandparents in full, as it appears on the birth certificate, in the space provided.

12. Fill in the name of the applicant's great-great-grandparents in full, as it appears on the birth certificate, in the space provided.

13. Fill in the name of the applicant's great-great-great-grandparents in full, as it appears on the birth certificate, in the space provided.

14. Fill in the name of the applicant's great-great-great-great-grandparents in full, as it appears on the birth certificate, in the space provided.

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16. Fill in the name of the applicant's great-great-great-great-great-great-grandparents in full, as it appears on the birth certificate, in the space provided.

General Curriculum with Major in ANIMAL SCIENCE  
(for degree of B.S. in Agriculture)

28.

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_  
DATE \_\_\_\_\_

AGRICULTURE PRESCRIBED:	HOURS	GRADE	TWO COURSES FROM: An. Sci. 206, 301, 302, 303, 304		
Agr. 100	0				
Agron. 201	5				
An. Nutr. 301	3				
An. Sci. 100	3				
An. Sci. 102	3				
An. Sci. 110	3				
An. Sci. 204	3				
An. Sci. 305	3				
An. Sci. 332	3				
6 HOURS FROM:					
Agr. Econ. 100	3				
Agr. Eng. 100	3				
Agron. 121	4				
Da. Sci. 100	3				
Forestry 100	3				
Hort. 100	3				
NON-AGRICULTURE PRESCRIBED:					
Botany 100	4				
Chem. 101, 102, or 111	3-5				
Chem. 132 or 133	3-5				
Econ. 108	3				
Geology 105	3				
Math. Placement Test or Math. 111, 112, or 104	3-5				
Rhetoric 101	3				
Rhetoric 102	3				
Speech 101	3				
Vet. Path. & Hyg. 105	3				
Vet. Phys. & Pharm. 202	3				
Zoology 104	4				
Mil.-Mil.	1-1				
Mil.-Mil.	1-1				
P.E.-P.E.	(1-1)				
P.E.-P.E.	(1-1)				

AGRICULTURE ELECTIVES--Total Agr. prescribed and electives must equal at least 50 hours.

At least 25 hours of Agr. must be completed in residence.

Transfer:

Residence:

Earned:

To be earned:

HUMANITIES AND SOCIAL SCIENCES--12 hours from: anthro., art, econ., fin., for. lang., geog., hist., land. arch., lit., music, phil., pol. sci., psych., religion, soc., and speech.

Earned:

To be earned:

OPEN ELECTIVES

TOTAL HOURS

126 hours, including military and excluding P.E., are required for the degree as outlined above. Minimum average of 3.0 is required for graduation. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at U. of I. and a combined average of 3.0 for transfer and University of Illinois work.





## MAJOR IN DAIRY SCIENCE

The purpose of the major in Dairy Science is to provide training for students planning careers as dairy farm operators and managers; as fieldmen for milk plants, breed associations, feed companies, and governmental agencies; as control technicians or salesmen for feed manufacturers; as laboratory and field technicians in artificial insemination, and as breeding consultants.

In addition, this major provides a foundation for advanced study in preparation for careers as college teachers, research scientists in experiment stations and industry, and as extension specialists.

For common core requirements see page 12. Other courses required for this major are:

<u>Prescribed Courses in Agriculture</u>	<u>Semester</u>	<u>Hours</u>
Dairy Science 100--Introduction to Dairy Production (I, II)		3
Dairy Science 102--Feeds and Feeding (I, II)		3
Dairy Science 110--Plant and Animal Genetics (I, II)		3
Dairy Science 202--Feeding Dairy Cattle (II)		3
Dairy Science 205--Dairy Cattle Management (I)		3
Agr. Economics 220--Farm Management (I, II)		3
Agronomy 201--Soils (I, II)		5
Nine hours from the following:		
Dairy Science 104--Dairy Cattle Judging (II)		2
Dairy Science 150--General Dairy Bacteriology (II)		2
Dairy Science 305--Genetics and Animal Improvement (II)		3
Dairy Science 311--Problems in Dairy Farming (I)		3
Dairy Science 330--Reproduction and Artificial Insemination of Farm Animals (I)		3
Dairy Science 334--Marketing Dairy Products (II)		3
Agronomy 121--Crop Production (I, II)		4
Agronomy 322--Forage Crops and Pastures (II)		3
An. Nutr. 301--Introduction to Animal Nutrition (I)		3
Entomology 101--Agricultural Entomology (I, II)		3

Elective courses in Agriculture to bring total Agriculture to a minimum of fifty hours.

Humanities and Social Sciences (see page 13 for definition) 12

Prescribed Non-Agriculture Courses

Minimum of six hours from:

Bacteriology	
Chemistry 122--Elementary Quantitative Analysis (I, II)	5
Chemistry 350--General Biochemistry (I, II)	3
Chemistry 355--Biochemistry Laboratory (I, II)	3
Mathematics (in addition to core requirements)	
Physiology	
Veterinary Physiology and Pharmacology	

Open Electives to Bring Total Hours to: 126

Depending upon their interests and abilities, and in consultation with their advisers, students majoring in Dairy Science are urged to select their elective courses from the agriculture courses listed above in excess of the nine-hour requirement or from non-agricultural courses which would supplement the major program with any of the basic sciences, the communication skills, business practices and administration, social sciences or the humanities.

This report was prepared by the Office of the Inspector General, U.S. Department of Justice, under the direction of the Honorable Mr. J. Lee Rankin, Inspector General. It was prepared in accordance with the provisions of the Federal Acquisition Regulation, 48 CFR 101-11.6, which requires the Inspector General to conduct a review of the acquisition process of the Department of Justice. The review was conducted from July 1, 1994, to June 30, 1995. The results of the review are presented in this report.

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**General Curriculum with Major in DAIRY SCIENCE**  
(for degree of B.S. in Agriculture)

30.

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_  
DATE \_\_\_\_\_

AGRICULTURE PRESCRIBED:		HOURS	GRADE	9 HOURS FROM: Da. Sci. 104, 150, 305, 311, 330, 334; Agron. 121, 322; An. Nutr. 301; Entom. 101		
Agr. 100		0				
Agr. Econ. 220		3				
Agron. 201		5				
Da. Sci. 100		3				
Da. Sci. 102		3				
Da. Sci. 110		3				
Da. Sci. 202		3				
Da. Sci. 205		3				
6 HOURS FROM:				AGRICULTURE ELECTIVES--Total Agr. prescribed and electives must equal at least 50 hours.		
Agr. Econ. 100		3				
Agr. Eng. 100		3				
Agron. 121		4				
An. Sci. 100		3				
Forestry 100		3				
Hort. 100		3				
NON-AGRICULTURE PRESCRIBED:						
Botany 100		4				
Chem. 101, 102, or 111		3-5				
Chem. 132 or 133		3-5				
Econ. 108		3				
Geology 105		3				
Math. Placement Test or Math. 111, 112, or 104		3-5				
Rhetoric 101		3				
Rhetoric 102		3				
Speech 101		3				
Zoology 104		4				
Mil.-Mil.		1-1				
Mil.-Mil.		1-1				
P.E.-P.E.		(1-1)				
P.E.-P.E.		(1-1)				
				HUMANITIES AND SOCIAL SCIENCES--12 hours from: anthro., art, econ., fin., for. lang, geog., hist., land. arch., lit., music, phil., pol. sci., psych., religion, soc., and speech.		
				EARNED:		
				To be earned:		
				OPEN ELECTIVES:		
				TOTAL HOURS		

126 hours, including military and excluding P.E., are required for the degree as outlined above. Minimum average of 3.0 is required for graduation. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at U. of I. and a combined average of 3.0 for transfer and University of Illinois work.





## MAJOR IN HORTICULTURE

For students who are interested primarily in general agriculture but desire a basic knowledge of horticulture. Emphasis is placed on the basic plant sciences to give a general background for the specialized phases of horticulture. By a careful choice of horticulture courses and electives, a student may prepare for the production of fruits, vegetables, or other specialized horticultural crops.

Students who are interested in horticultural crops for processing should enroll in the horticultural food crops curriculum; those interested in the production of flowers, in the floriculture and ornamental horticulture curriculum.

For common core requirements see page 12. Other courses required in this major are:

<u>Prescribed Courses in Agriculture</u>	<u>Semester</u>	<u>Hours</u>
Horticulture 100 <sup>1/</sup> --Introductory Horticulture (I, II)		3
Horticulture 110--Plant and Animal Genetics (I, II)		3
Horticulture 221--Plant Propagation (I)		3
Agronomy 201--Soils (I, II)		5
Entomology 101--Agricultural Entomology (I, II)		3
Plant Path. 317--Plant Pathology (Bot. 317) (I)		4
Additional Horticulture courses		11

Elective courses in Agriculture to bring total Agriculture to a minimum of fifty hours

Humanities and Social Sciences (see page 13 for definition) 12

Prescribed Non-Agriculture Courses  
Botany 130--Plant Physiology (I) 5

Open Electives to Bring Total Hours to: 126

Recommended Agriculture Electives  
Agriculture 114, 216  
Agricultural Engineering 131, 252  
Agricultural Economics 303  
Agronomy 306, 311, 326  
Horticulture courses other than those listed or taken to satisfy the requirements

Recommended Non-Agriculture Courses  
Accountancy 201  
Botany 116, 160  
Landscape Architecture 251, 252  
Entomology 319  
Geography 211  
Philosophy 102  
Physics 101, 102  
Political Science 150  
Rhetoric 151

<sup>1/</sup> Juniors and seniors should substitute Hort. 242 or 262.





General Curriculum with Major in HORTICULTURE  
(for degree of B.S. in Agriculture)

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_

DATE \_\_\_\_\_

AGRICULTURE PRESCRIBED:	HOURS	GRADE	HORTICULTURE ELECTIVES--11 hours minimum			
Agr. 100	0					
Agron. 201	5					
Entom. 101	3					
Hort. 100	3					
Hort. 110	3					
Hort. 221	3					
Plant Path. 317	4					
9 HOURS FROM:						
Agr. Econ. 100	3					At least 25 hours of Agr. must be completed in residence.
Agr. Eng. 100	3		AGRICULTURE ELECTIVES--Total Agr. prescribed and electives must equal at least 50 hours.			
Agron. 121	4					
An. Sci. 100	3					
An. Sci. 102 or	3					
Da. Sci. 102						
Da. Sci. 100	3					Transfer:
Forestry 102	3					Residence:
NON-AGRICULTURE PRESCRIBED:						
Botany 100	4					Earned:
Botany 130	5					To be earned:
Chem. 101, 102, or 111	3-5					
Chem. 132 or 133	3-5					
Econ. 108	3		HUMANITIES AND SOCIAL SCIENCES--12 hours from: anthro., art, econ., fin., for. lang., geog., hist., land. arch., lit., music, phil., pol. sci., psych., religion, soc., and speech.			
Geology 105	3					
Math. Placement Test or Math. 111, 112, or 104	3-5					Earned:
						To be earned:
Rhetoric 101	3		OPEN ELECTIVES:			
Rhetoric 102	3					
Speech 101	3					TOTAL HOURS
Zoology 104	4					
Mil.-Mil.	1-1					
Mil.-Mil.	1-1					
P.E.-P.E.	(1-1)					
P.E.-P.E.	(1-1)					

126 hours, including military and excluding P.E., are required for the degree as outlined above. Minimum average of 3.0 is required for graduation. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at U. of I. and a combined average of 3.0 for transfer and University of Illinois work.





## General Curriculum in Agriculture, cont.

## MAJOR IN GENERAL AGRICULTURE

For students who are interested in broad basic training in agriculture rather than in specialization within a departmental field of work. Areas for which such training is suited include farming, agricultural extension, agricultural journalism, agricultural services, conservation and wildlife management, pre-theological study, and others.

For common core requirements see page 12. Other courses required for this major are:

<u>Prescribed Courses in Agriculture</u>	<u>Semester</u>	<u>Hours</u>
Agronomy 201--Soils (I,II)		5
At least three hours credit in each of the following departments, in addition to courses taken to complete Group 1 requirements:		
Agricultural Economics		3
Agricultural Engineering		3
Agronomy (in addition to 201)		3
Animal Science		3
Dairy Science		3
Horticulture		3

Elective courses in Agriculture to bring total Agriculture to a minimum of fifty hours.

Humanities and Social Sciences (see page 13 for definition)	12
<u>Open Electives to Bring Total Hours to:</u>	126

Suggested programs of courses are outlined on the following pages for students who wish to prepare for work in agricultural extension, agricultural journalism, conservation and wildlife management, or for theological study.

Suggested courses for pre-theological students  
as preparation for admission to a theological seminary

In addition to the courses specifically required in the first two years of the general curriculum in agriculture, and the general agriculture major, the following are also recommended for students enrolled in the College of Agriculture who plan to enter the ministry:

Education  
English Literature (preferably two courses)  
Foreign Language (French, German, or Greek)  
History or Government (preferably two courses)  
Philosophy  
Psychology  
Religion (Foundation Courses)  
Rural Sociology  
Sociology

These will fulfill requirements for entry into most seminaries, but a student planning to enter a particular seminary should check as to courses required for admission and pre-enroll in the seminary of his choice.



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Suggested Program for Agricultural Extension

(Major in General Agriculture)

<u>Agriculture Courses, including:</u>	<u>Semester</u>	<u>Hours</u>
Agriculture 100--Lectures for Freshmen in Agriculture (I,II)		0
Agronomy 121--Crop Production (I,II)		4
Animal Science 102--Feeds and Feeding (I,II)		3
Dairy Science 100--Intro. to Dairy Production (I,II)		3
Agronomy 110, An. Sci. 110, Da. Sci. 110, or Hort 110--Plant and Animal Genetics (I,II)		3
Agricultural Economics 220--Farm Management (I,II)		3
Agricultural Economics 230--Marketing of Agric. Products (I,II)		3
Agriculture 114--Agricultural Journalism (I,II)		3
Agriculture 206--Agricultural Extension (II)		3
Agronomy 201--Soils (I,II)		5
Entomology 101--Agricultural Entomology (I,II)		3
Rural Sociology 117--Introduction to Rural Sociology (I,II)		3

One additional three-hour course from each of the following departments:

Agricultural Engineering, Agronomy, Animal Science, Dairy Science, and Horticulture, to be chosen from the recommended agriculture electives below:

Agr. Econ. 273, 302, 303, 305, 324, 325

Agr. Eng. 241, 252, 272, 361

Agriculture 208, 214, 216

Animal Science 301, 302, 303, 304

Agronomy 301, 306, 322, 326

Dairy Science 202, 205, 330

Forestry 100

Horticulture 225, 242, 262

Plant Path. 317 or 377

Humanities and Social Sciences (see page 13 for definition) 12

Including nine hours from:

Econ. 109--Principles of Economics (I,II) 3

Pol. Sci. 150--American Government: Organization and Powers (I,II) 3

Sociology (200- or 300-level course) 3

Speech 113--Group Discussion and Conference Leadership (I,II) 3

Speech 221--Persuasion (I,II) 3

Psychology 100--Introduction to Psychology (I,II) or 4

D. G. S. 171--Psychology for General Education (I,II) 4

Open Elective

Rhetoric 151--Business Letter Writing (I,II) 3

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### Suggested Programs for Agricultural Journalism

For students who are interested in positions in the farm magazine field, farm radio or television, advertising, sales, public relations, college editorial work and other fields requiring training in both agriculture and journalism. Two options are available:

- I. Bachelor of Science in Agriculture with a minor in Journalism.
- II. Bachelor of Science in Communications with a minor in Agriculture.

Students who desire to follow either option of the combined agriculture-journalism program should consult with the Associate Dean of Agriculture or the Dean of the College of Journalism as early as possible and be assigned to an appropriate adviser.

Option I. For the Bachelor of Science in Agriculture with a minor in Journalism, the student will enroll in the College of Agriculture, general agriculture curriculum, and complete all requirements of that curriculum. In addition to the prescribed courses of the curriculum, he must also complete the following courses:

	<u>Semester</u>	<u>Hours</u>
Agriculture 114 (Same as Journ. 114)--Agricultural Journalism (I, II)		3
Journalism 204--Typography (I, II)		2
Journalism 211--News writing (I, II)		3
Journalism 321--News Editing (I, II)		4
Electives in Journalism		8
TOTAL		<u>20</u>

The journalism electives are to be chosen from the following courses:

Journ. 214 (also Agric. 214), 223, 281, 309, 326, 351, and Radio and Television 252, 261, 365, Advertising 281 and 382.

All of the courses taken in journalism may be counted as open electives in the general agriculture curriculum. Students following this option complete all four years while enrolled in the College of Agriculture.

Option II. For the Bachelor of Science in Communications with a minor in Agriculture, the student may take his first two years of work in the College of Agriculture or in the College of Liberal Arts and Sciences. In this option, the student must complete a minimum of twenty semester hours in agriculture courses as follows:

<u>Required Agriculture Courses:</u>	<u>Semester</u>	<u>Hours</u>
Agronomy 121--Crop Production (I, II)		4
Animal Science or Da. Sci. 102--Feeds and Feeding (I, II)		3
Agricultural Economics 220--Farm Management (I, II)		3
Approved Electives in Agriculture		10
TOTAL		<u>20</u>



These twenty hours may be substituted for the twenty hours of advanced social studies required for graduation by the College of Journalism and Communications. The agricultural electives are to be chosen from the following courses: Agr. Eng. 111, 112; Agr. Econ. 305; Agron. 201; An. Sci. 201, 301, 303, or 304; Da. Sci. 100; Forestry 101; Hort. 100; and Rural Sociology.

After two years of pre-journalism work in Agriculture or Liberal Arts and Sciences, the student then transfers to the College of Journalism and Communications for two years of professional training. If the first two years are taken in the College of Agriculture, the student will find it advantageous to include in his program those agriculture courses from the above listing which are open to freshmen and sophomores. The remaining agriculture requirements may be completed during the junior and senior years. Since some of the required and recommended agriculture courses have prerequisites of basic science courses (Botany 100, Chemistry 101, 102, or 111 or Geology 105), it is advisable to elect these courses during the first two years also.





**Suggested Program for Conservation and Wildlife Management**  
(Major in General Agriculture)

Students who wish to obtain a degree in agriculture with specialization in conservation and wildlife management should complete the core requirements of the general curriculum and the following courses:

<u>Agriculture Courses From Group I</u>	<u>Semester</u>	<u>Hours</u>
Agr. Economics 100--Introductory Agric. Economics (I, II)		3
Agronomy 121--Crop Production (I, II)		4
Forestry 100--Farm Forestry (I, II)		3
Horticulture 110--Plant and Animal Genetics (I, II)		3
Agriculture Elective from Group I		3
<u>Other Agricultural Courses</u>		
Agr. Economics 220--Farm Management (I, II)		3
Agr. Engineering 252--Mechanics of Soil and Water Conservation (II)		3
Agriculture 216--Experimental and Biological Statistics (I, II)		3
Agronomy 201--Soils (I, II)		5
Agronomy 307--Principles of Soil Conservation (II)		3
Animal Science or Animal Nutrition Electives (200 or 300 level)		3
Dairy Science 102--Feeds and Feeding (I, II)		3
Entomology 101--Agricultural Entomology (I, II)		3
Horticulture 121--Plant Propagation (I)		3
Agriculture electives to bring total to 50 hours		5-6
<u>Humanities and Social Sciences</u> (see page 12 for definition)		12
<u>Non-Agriculture Courses for GAME MANAGEMENT SPECIALIZATION</u>		
Botany 160--Introductory Plant Taxonomy (II)		3
Botany 381--Plant Ecology (I)		3
Physiology 361 (Zoology 361)--Comparative Physiology (I)		5
Zool. 132--Comparative Vertebrate Anatomy (I, II)		5
Zool. 335--Ornithology (II)		3
Zool. 336--Mammalogy(I--alternate years)		3
Zool. 342--Wildlife Management and Conservation (I)		3
Zool. 345--Animal Ecology (I)		3-5
<u>Non-Agriculture Courses for FISH MANAGEMENT SPECIALIZATION</u>		
Botany 160--Introductory Plant Taxonomy (II)		3
Chem. 105--Inorganic Chem. and Qualitative Analysis (I, II)		5
Chem. 122--Elementary Quantitative Analysis (I, II)		5
Physiology 361 (Zoology 361)--Comparative Physiology (I)		5
Zool. 132--Comparative Vertebrate Anatomy (I, II)		5
Zool. 304--Field and Systematic Zoology (I)		5
Zool. 337--Ichthyology(I--alternate years)		3
Zool. 342--Wildlife Management and Conservation (I)		3
Zool. 345 Animal Ecology (I)		3-5





General Curriculum with Major in GENERAL AGRICULTURE  
(for degree of B.S. in Agriculture)

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_

DATE \_\_\_\_\_

AGRICULTURE PRESCRIBED:	HOURS	GRADE	AGRICULTURE ELECTIVES: Must include 3 hours of additional credit in each of the following departments:			
Agr. 100	0		Agr. Econ.			
Agron. 201	5		Agr. Eng.			
15 HOURS FROM:			Agron.			
Agr. Econ. 100	3		An. Sci.			
Agr. Eng. 100	3		Da. Sci.			
Agron. 121	4		Hort.			
An. Sci. 100	3					
An. Sci. 102 or Da. Sci. 102	3		OTHER AGRICULTURE ELECTIVES--Total			At least 25 hours of Agr. must be completed in residence.
Da. Sci. 100	3		Agr. prescribed and elective must equal at least 50 hours.			
Forestry 100	3					
Hort. 100	3					
Agron. 110, An. Sci. 110, Da. Sci. 110, or Hort. 110	3					Transfer:
NON-AGRICULTURE PRESCRIBED:						Residence:
Botany 100	4					
Chem. 101, 102, or 111	3-5					Earned:
Chem. 132 or 133	3-5					To be earned:
Econ. 108	3					
Geology 105	3		HUMANITIES AND SOCIAL SCIENCES--12 hours from: anthro., art, econ., fin., for.lang., geog., hist., land.arch., lit., music, phil., pol.sci., psych., religion, soc., and speech.			
Math. Placement Test or Math 111, 112 or 104	3-5					Earned:
Rhetoric 101	3					To be earned:
Rhetoric 102	3					
Speech 101	3		OPEN ELECTIVES:			
Zoology 104	4					TOTAL HOURS
Mil.-Mil.	1-1					
Mil.-Mil.	1-1					
P.E.-P.E.	(1-1)					
P.E.-P.E.	(1-1)					

126 hours, including military and excluding P.E., are required for the degree as outlined above. Minimum average of 3.0 is required for graduation. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at U. of I. and a combined average of 3.0 for transfer and University of Illinois work.

Ratio of Immigration  
Ratio of Emigration

Ratio  
Ratio

Immigration			Emigration		
Year	Ratio	Ratio	Year	Ratio	Ratio
1910	100	100	1910	100	100
1911	105	105	1911	102	102
1912	110	110	1912	100	100
1913	115	115	1913	98	98
1914	120	120	1914	95	95
1915	125	125	1915	92	92
1916	130	130	1916	90	90
1917	135	135	1917	88	88
1918	140	140	1918	85	85
1919	145	145	1919	82	82
1920	150	150	1920	80	80
1921	155	155	1921	78	78
1922	160	160	1922	75	75
1923	165	165	1923	72	72
1924	170	170	1924	70	70
1925	175	175	1925	68	68
1926	180	180	1926	65	65
1927	185	185	1927	62	62
1928	190	190	1928	60	60
1929	195	195	1929	58	58
1930	200	200	1930	55	55
1931	205	205	1931	52	52
1932	210	210	1932	50	50
1933	215	215	1933	48	48
1934	220	220	1934	45	45
1935	225	225	1935	42	42
1936	230	230	1936	40	40
1937	235	235	1937	38	38
1938	240	240	1938	35	35
1939	245	245	1939	32	32
1940	250	250	1940	30	30
1941	255	255	1941	28	28
1942	260	260	1942	25	25
1943	265	265	1943	22	22
1944	270	270	1944	20	20
1945	275	275	1945	18	18
1946	280	280	1946	15	15
1947	285	285	1947	12	12
1948	290	290	1948	10	10
1949	295	295	1949	8	8
1950	300	300	1950	5	5

Notes: The above figures are based on the official statistics of the Japanese Government. The ratio of immigration is calculated on the basis of the total population of Japan in 1910. The ratio of emigration is calculated on the basis of the total population of Japan in 1910. The figures are rounded off to the nearest whole number.



## General Curriculum in Agriculture with Major for Teachers of Vocational Agriculture

The purpose of this curriculum is to train young men to teach agriculture in high schools having departments of vocational agriculture. In addition to the training outlined in this curriculum, the present Illinois State Plan for Teachers of Vocational Agriculture calls for a minimum of two years of practical experience on the farm after reaching the age of sixteen.

A minimum of 126 hours of credit, including the first two years of military training and excluding physical education, is required for graduation. While students are advised to take courses in the order indicated, they may with the approval of their advisers take courses at another time.

Since all of the requirements of the common first two years of the General Curriculum in Agriculture are included in this major, students may follow the general curriculum for the first two years and then change to this major without loss of time.

Continuation in this curriculum with a major in vocational agriculture requires admission to advanced standing in teacher education. Application for admission to advanced standing must be made through a vocational agriculture adviser at the time of registration for the final semester of the sophomore year. A student who transfers with more than sophomore standing must apply for admission to advanced standing at the time of his first resignation.

Admission to advanced standing is determined on the basis of applicant's academic and personal qualifications for teaching. The completion of certain standardized tests is required. The record of an applicant whose academic average is below 3.5 is subject to special study.

Admission to advanced standing in teacher education is prerequisite to admission to courses in educational practice (student teaching). A student who is admitted to advanced standing in teacher education is admitted to the appropriate educational practice course unless there is subsequent deterioration in his record.

Applications for student teaching assignments are received twice each year. Students who are on the campus during the spring semester prior to the year they expect to enroll in student teaching must apply for an assignment during February of that semester; students who are not on the campus during the spring semester are allowed to apply for assignment during the first three weeks of the fall semester. Application forms may be obtained in the Office of Student Teaching, 208 Gregory Hall.

Agricultural Education 275, Summer Experience in Agricultural Education, is highly recommended for students in this major, and should be taken between the junior and senior years.



The University of Southern California

1. The purpose of this document is to provide information to the public regarding the activities of the [redacted] and the [redacted] in the [redacted] area. This document is intended to be a public document and is not to be used for any other purpose.

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1. The first of these is the fact that the Commission has not yet received any information from the Government of the United Kingdom regarding the proposed changes to the law of the United Kingdom regarding the treatment of the British Commonwealth countries.

First Year

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Agr. 100--Lect. for Freshmen	0	Agr. Course from Group I, or Math	
Agr. Course from Group I	3	111--Alg., or Math. 112--College Alg.,	
Agr. Course from Group I, or Math.		or Math. 104--Elements of Algebra	
111--Algebra, or Math. 112--College		and Trig. 1/	3-5
Alg., or Math. 104--Elements of		Chem. 101, 102, or 111--Gen. Chem.	3-5
Alg. and Trig. 1/	3-5	Rhet. 102--Rhet. and Comp.	3
Bot. 100--General Botany	4	Zool. 104--Elementary Zool.	4
Rhet. 101--Rhet. and Comp.	3	Physical Education	(1)
Physical Education	(1)	Military (men)	1
Military (men)	1		
Total	15-17	Total	15-17

Second Year

Agr. Eng. 111--Farm Structures and		Agr. Eng. 112--Tractors and Field	
Soil and Water Conservation	3	Machinery	3
Agriculture Courses from Group I	6	Agriculture Courses from Group I	6
Ed. 101--The Nature of the Teaching		Chem. 132--Elem. Org. Chem.	3
Profession	2	Econ. 108--Elements of Economics	3
Geol. 105--Agricultural Geology	3	Physical Education	(1)
Physical Education	(1)	Military (men)	1
Military (men)	1		
Total	16	Total	17

Third Year

Agriculture Course from Group I	3	Agr. Econ. 220--Farm Management	3
Agron. 201--Soils	5	Ed. 201--Found. of American Ed.	2
Psych. 100--Intro. to Psych.	4	Ed. 240--Prin. of Second. Ed.	2
Speech 101--Prin. of Effective		Hist. 152--History of U.S. from	
Speaking	3	1865 to the Present	3
Agricultural Electives	0-3	Agricultural Electives	6
Total	15-18	Total	16

Fourth Year

Semesters interchangeable. Courses taken with practice teaching will be offered during a ten-week period.

Agr. Ed. 276--Pract. in Agr. Ed.	5	Pol. Sci. 150--American Govt.	3
Agr. Ed. 277--Programs and Pro-		Agricultural Electives	3-6
cedures in Agr. Education	5	Electives (including two hours of	
Agr. Eng. 201--Farm Shop Work	3	humanities) 2/	6-12
Ed. 211--Educ. Psych.	3		
Total	16	Total	15-18

Total hours credit required for the B.S. degree . . . . . 126

1/ Students who pass the math. placement test are not required to take a math. course.  
2/ A total of six hours of humanities is required.





Group 1--Courses in agriculture required of all students in this curriculum.

<u>Courses</u>	<u>Hours</u>
Agr. Econ. 100--Introductory Agr. Economics <sup>1/</sup>	3
Agronomy 121--Crop Production	4
An. Sci. 100--Introduction to Animal Science	3
An. Sci. or Da. Sci. 102--Feeds and Feeding	3
Da. Sci. 100--Introduction to Dairy Prod.	3
Horticulture 100--Introductory Horticulture <sup>1/</sup>	3
Forestry 100--Farm Forestry, or Forestry 101-- General Forestry, or Hort. elective	3
Total	22

### Fifth Year

(for the degree, Master of Science in Agricultural Education)

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
Agricultural Courses With Graduate Credit	2	Agricultural Courses With Graduate Credit	2
Educ. 311--Psych. of Learning for Teachers	1/2	Two of the following courses:	
Educ. 312--Mental Hygiene and the School	1 1/2	Educ. 301--Philos. of Educ.	1/2
Electives	1	Educ. 302--Hist. of Am. Educ.	1/2
		Educ. 303--Comparative Educ.	1/2
		Educ. 304--Social Foundations of Education	1/2
		Electives	1
Total	4	Total	4

This fifth-year program is open only to students who have previously met the minimum requirement for teaching vocational agriculture under the Smith-Hughes and related acts. It is planned as a fifth year for students who have completed four years of college work fully equivalent to the General Curriculum in Agriculture with Major for Teachers of Vocational Agriculture.

Teachers planning to complete the requirements for this degree while employed should note the following regulations:

1. Four of the eight required units must be in agriculture and two must be in education, and must be selected with the approval of the adviser.
2. Not more than four units may be earned extramurally; of the credits earned extramurally, no more than two can be in agriculture and no more than two can be in education.

<sup>1/</sup> Students entering as juniors or seniors should substitute Agr. Economics 230 for Agr. Economics 100 and Horticulture 242 or 262 for Horticulture 100.

Section 1: Introduction

The purpose of this document is to provide a comprehensive overview of the project's goals, objectives, and scope. It is intended for use by all stakeholders involved in the project, including the project manager, team members, and sponsors.

The document is organized into several sections, each covering a specific aspect of the project. The sections are as follows:

- Section 1: Introduction
- Section 2: Project Goals and Objectives
- Section 3: Project Scope
- Section 4: Project Organization
- Section 5: Project Risks
- Section 6: Project Communication
- Section 7: Project Monitoring and Control
- Section 8: Project Closure

Table 1: Project Organization

Role	Responsibilities	Reporting Line
Project Manager	Overall project management, including planning, execution, and closure.	Sponsor
Team Lead	Managing the day-to-day activities of the project team.	Project Manager
Team Member	Performing specific tasks assigned by the team lead.	Team Lead
Sponsor	Providing resources and support for the project.	Executive Management

Section 2: Project Goals and Objectives

The project has the following goals and objectives:

- Goal 1: Complete the project within the specified timeline.
- Goal 2: Deliver a high-quality product that meets the requirements of the sponsor.
- Goal 3: Maintain a budget of \$100,000.
- Goal 4: Ensure that all team members are trained and equipped to perform their tasks.

- Section 3: Project Scope
- The project scope includes the following tasks and deliverables:
- Task 1: Conduct a market research study to identify potential customers.
  - Task 2: Develop a business plan for the new product.
  - Task 3: Design and develop the product.
  - Task 4: Test the product and gather feedback from users.
  - Task 5: Launch the product and monitor sales.

Section 4: Project Organization

The project organization is structured as follows:

- Project Manager: Responsible for overall project management.
- Team Lead: Responsible for managing the day-to-day activities of the project team.
- Team Member: Responsible for performing specific tasks assigned by the team lead.



**General Curriculum in Agriculture with Major for TEACHERS OF VOCATIONAL AGRICULTURE**  
(for degree of B.S. in Agriculture)

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_

DATE \_\_\_\_\_

AGRICULTURE PRESCRIBED--These courses should be completed before the junior year or as soon thereafter as possible.			AGRICULTURE ELECTIVES--The total of Agr. prescribed and Agr. elective courses must equal at least 50 hours.			At least 25 hours of Agr. must be completed in residence.
	HOURS	GRADE		HOURS	GRADE	
Agr. 100	0					Transfer:
Agr. Econ. 100	3					
Agr. Econ. 220	3					Residence:
Agr. Eng. 111	3					
Agr. Eng. 112	3					Earned:
Agron. 121	4					
Agron. 201	5					To be earned:
An. Sci. 101	3					
An. Sci. 102 or Da. Sci. 102	3					
Da. Sci. 100	3					
Hort. 100	3					
Forestry 100 or 101, or Hort. elective	3					
NON-AGRICULTURE PRESCRIBED:			SOCIAL SCIENCES PRESCRIBED:			TOTAL HOURS
Botany 100	4		History 152	3		
Chem. 101, 102 or 111	3-5		Pol. Sci. 150	3		
Chem. 132 or 133	3-5		HUMANITIES (Minimum of 6 hrs.)			
Economics 108	3		Psychol. 100	4		
Geology 105	3		Humanities (art, music, lang., lit., psych., phil., religion)			
Math. Placement Test or Math. 111, 112, or 104	3-5		EDUCATION COURSES PRESCRIBED:			
Rhetoric 101	3		Education 101	2		
Rhetoric 102	3		Education 201	2		
Speech 101	3		Education 211	3		
Zoology 104	4		Education 240	2		
Mil.-Mil.	1-1		Agr. Educ. 276	5		
Mil.-Mil.	1-1		Agr. Educ. 277	5		
P.E.-P.E.	(1-1)		OPEN ELECTIVES:			
P.E.-P.E.	(1-1)					

126 hours, including military and excluding P.E., are required for the degree as outlined above. A minimum average of 3.0 is required for graduation. An all-University average of 3.5 is required for practice teaching. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at the U. of I. and a combined average of 3.0 for transfer and U. of I. work.



1. The Commission has received information from the Government of the United Kingdom that the Government of the United Kingdom has decided to withdraw its troops from the Falkland Islands and to hand over the Islands to the Government of Argentina.

INTRODUCTION TO THE  
ART OF THE

27

CITY OF NEW YORK		COUNTY OF NEW YORK		JANUARY 1, 1900	
1	100	1	100	1	100
2	100	2	100	2	100
3	100	3	100	3	100
4	100	4	100	4	100
5	100	5	100	5	100
6	100	6	100	6	100
7	100	7	100	7	100
8	100	8	100	8	100
9	100	9	100	9	100
10	100	10	100	10	100
11	100	11	100	11	100
12	100	12	100	12	100
13	100	13	100	13	100
14	100	14	100	14	100
15	100	15	100	15	100
16	100	16	100	16	100
17	100	17	100	17	100
18	100	18	100	18	100
19	100	19	100	19	100
20	100	20	100	20	100
21	100	21	100	21	100
22	100	22	100	22	100
23	100	23	100	23	100
24	100	24	100	24	100
25	100	25	100	25	100
26	100	26	100	26	100
27	100	27	100	27	100
28	100	28	100	28	100
29	100	29	100	29	100
30	100	30	100	30	100
31	100	31	100	31	100
32	100	32	100	32	100
33	100	33	100	33	100
34	100	34	100	34	100
35	100	35	100	35	100
36	100	36	100	36	100
37	100	37	100	37	100
38	100	38	100	38	100
39	100	39	100	39	100
40	100	40	100	40	100
41	100	41	100	41	100
42	100	42	100	42	100
43	100	43	100	43	100
44	100	44	100	44	100
45	100	45	100	45	100
46	100	46	100	46	100
47	100	47	100	47	100
48	100	48	100	48	100
49	100	49	100	49	100
50	100	50	100	50	100
51	100	51	100	51	100
52	100	52	100	52	100
53	100	53	100	53	100
54	100	54	100	54	100
55	100	55	100	55	100
56	100	56	100	56	100
57	100	57	100	57	100
58	100	58	100	58	100
59	100	59	100	59	100
60	100	60	100	60	100
61	100	61	100	61	100
62	100	62	100	62	100
63	100	63	100	63	100
64	100	64	100	64	100
65	100	65	100	65	100
66	100	66	100	66	100
67	100	67	100	67	100
68	100	68	100	68	100
69	100	69	100	69	100
70	100	70	100	70	10

The first group of 100 subjects was divided into two groups of 50 each. The first group was given a 10-minute rest period before the test, while the second group was given a 30-minute rest period. The results of the test are shown in Table 1.

## AGRICULTURAL INDUSTRIES CURRICULUM

(for the degree, Bachelor of Science in Agriculture)

This curriculum provides a broad selection of courses in agricultural sciences, natural sciences, economics and other social sciences, business administration, finance, communication, and the humanities. It is designed to prepare students for careers in those industries and businesses which service or are related to agriculture. A minimum of 26 hours of commerce and business administration courses is required.

During the first two years, this curriculum closely parallels the requirements of the General Curriculum in Agriculture. Students desiring to transfer to the Agriculture Industries curriculum anytime during the first two years may do so with little difficulty.

Examples of specific opportunities for employment are:

1. Farm Supplies - Marketing of feed, seed, fertilizer, machinery, equipment, and other supplies to farmers;
2. Agricultural Commodities - Marketing of agricultural commodities in local, intermediate, and central markets;
3. Food and Food Products - Distribution of food and food products in wholesale and retail markets, including institutional users; and
4. Agricultural Real Estate and Finance - Services related to the appraisal, financing, ownership, and transfer of agricultural property.

An adviser will assist each student in planning a specific program.

Upon completion of the curriculum requirements and a minimum of 126 hours of credit, exclusive of physical education, the student is awarded the degree of Bachelor of Science in Agriculture.

(The following is a list of the names of the members of the

Committee on the History of the University of Chicago, 1890-1900. The committee was organized in 1890, and its members have since that time been engaged in a study of the history of the University. The committee has published a number of reports, and its work has been of great value to the University. The following is a list of the names of the members of the committee, 1890-1900.

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Members of the Committee on the History of the University of Chicago, 1890-1900.

1. James H. Kimball - Chairman, 1890-1900. President of the University, 1890-1900.

2. John D. Durkin - Secretary, 1890-1900. President of the University, 1890-1900.

3. William B. Ewald - Secretary, 1890-1900. President of the University, 1890-1900.

4. John D. Durkin - Secretary, 1890-1900. President of the University, 1890-1900.

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For the degree of Bachelor of Science in Agriculture

Sample Program for First Two Years

<u>First Semester</u>		<u>First Year</u>	<u>Second Semester</u>	
		<u>Hours</u>		<u>Hours</u>
Botany 100--General Botany		4	Chem. 101, 102 or 111--Gen.	
Rhet. 101--Rhet and Comp. <sup>1/</sup>		3	Chem.	3-5
Agr. 100--Lecture for Freshmen <sup>3/</sup>		0	Rhet. 102--Rhet. and Comp. <sup>4/</sup>	3
Agr. Courses from Group I			Math. 111, 112 or 104--Alg.	
or Math. 111, or 112 or 104--Alg.			or Alg. and Trig.	
or Alg. and Trig. <sup>2/</sup>		3-5	or Agr. Course from Group I	3-5
Agr. Course from Group I		3	Zoology 104--Elementary Zoology	4
Military (men)		1	Military (men)	1
Physical Education		(1)	Physical Education	(1)
Total		<u>15-17</u>	Total	<u>15-17</u>

<u>Second Year</u>			
Chem. 132--Organic Chemistry	3	Agr. Course from Group I	3
Geol. 101 or 105 Phys. or Agric.		Agr. elective from Group III	3
Geol.	3-4	Comm. and Bus. Admin. Course	
Two Agr. Courses from Group I	6-7	from Group II <sup>5/</sup>	3
Military (men)	1	Journ., Speech or Rhet. (exclu-	
Physical Education	(1)	sive of Rhet. 101, 102, 200	
Total	<u>15-16</u>	and Speech 101) <sup>4/</sup>	3
		Speech 101--Principles of Ef-	
		fective Speaking	3
		Military (men)	1
		Physical Education	(1)
		Total	<u>17</u>

Group I - Agriculture Prescribed--Agriculture 100 and a minimum of 14 hours selected from courses listed below; these should be completed during the first two years:

Agriculture 100--Lectures for Freshmen in Agriculture	0
Agricultural Economics 100--Introductory Agricultural Economics	3
Agricultural Engineering 100--Engineering Applications in Agriculture	3
Agriculture 114--Agricultural Journalism	3
Agronomy 121--Crop Production	4
Animal Science 100--Introduction to Animal Science	3
Animal Science 102 (or Dairy Science 102)--Feeds and Feeding	3
Dairy Science 100--Introduction to Dairy Science	3
Forestry 100--Farm Forestry	3
Genetics 110 (Agronomy 110, Animal Science 110, Dairy Science 110, or Horticulture 110)--Plant and Animal Genetics	3
Home Economics 120--Elementary Nutrition	2
Horticulture 100--Introductory Horticulture	3
Rural Sociology 117--Introduction to Rural Sociology	3

Junior and Senior Years

The general requirements in addition to the courses listed for the first two years include (1) completion of a minimum of 26 hours of commerce and business administration courses; (2) completion of 21 hours of agriculture electives in addition to the 14

117



hours of agriculture prescribed in Group I; (3) completion of at least 9 hours of Social Science (other than economics); (4) completion of at least 6 hours of humanities; (5) completion of sufficient open electives to bring total hours to 126.

SOCIAL SCIENCE - Nine hours of social science (other than economics) chosen from anthropology, geography, history, political science, psychology, or sociology.

HUMANITIES - Six hours of humanities chosen from art, music, language, literature, philosophy, or religion.

The social science and humanities courses will normally be taken during the junior-senior years.

Group II - Commerce and Business Administration prescribed - 26 hours

Accountancy 201 or 101 and 105	3 or 6
Economics 108 <sup>5</sup> / <sub>7</sub>	3
Economics 109	3
Economics 170 <sup>6</sup> / <sub>7</sub>	3
Finance 250 or 254	3
Marketing 271	2

Electives (approved by adviser) chosen from accountancy, business law, economics, finance, management and marketing to bring total commerce and business administration to 26 hours.

Group III - Suggested Agriculture electives - 21 hours

The following listing of agricultural courses is intended as a guide from which electives may be chosen. Other courses may be selected upon approval of the adviser. A total of 21 hours is required.

<u>For those interested in farm supplies</u>	<u>For those interested in agricultural commodities</u>	<u>For those interested in food and food products</u>	<u>For those interested in agricultural real estate and finance</u>
Agr. Econ. 220	Agr. Econ. 230	Agr. Econ. 230	Agr. Econ. 220
238	238	335	302
342	331	342	303
Agr. Eng. 131	332	An. Sci. 104	312
142	334	Dairy Tech. 102	342
241	335	Food Tech. 260	Agr. Eng. 252
242	342	332	272
272	Agron. 321	Home Ec. 120	Agron. 201
Agron. 201	An. Nutr. 301	Hort. 242	301
302	An. Sci. 103	262	
305	104		
311	301		
322	302		
323	303		
326	304		
An. Nutr. 301	Dairy Sci. 202		
An. Sci. 301	Dairy Tech. 102		
302			
303			
304			
Dairy Sci. 305			
202			
Entom. 101			
Pl. Path. 317 or 377			
Open electives to bring total hours to 126.			





- 1/ D. G. S. 111 and 112, Verbal Communications, both four-hour courses, may be substituted for Rhetoric 101, 102, and Speech 101.
- 2/ A student in this curriculum is required to complete either Mathematics 111, Algebra, 5 hours; or Mathematics, 112, College Algebra, 3 hours; or Mathematics 104, Elements of Algebra and Trigonometry, 3 hours; or pass the placement examination in mathematics. See page 10 and 13 for additional details.
- 3/ A non-credit orientation course required of all freshmen in agriculture.
- 4/ One course in journalism, speech, or rhetoric is required, in addition to Rhetoric 101 and 102 and Speech 101 and exclusive of Rhetoric 200.
- 5/ Economics 108 is recommended from this group for the sophomore year.
- 6/ Agriculture Economics 341 may be substituted for Economics 170.

- 1) The first part of the report deals with the general situation of the country and the results of the survey.
- 2) The second part of the report deals with the results of the survey in the different regions of the country.
- 3) The third part of the report deals with the results of the survey in the different districts of the country.
- 4) The fourth part of the report deals with the results of the survey in the different villages of the country.
- 5) The fifth part of the report deals with the results of the survey in the different farms of the country.



**AGRICULTURAL INDUSTRIES CURRICULUM**  
(for degree of B.S. in Agriculture)

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_

DATE \_\_\_\_\_

AGRICULTURE PRESCRIBED:	HOURS	GRADE	OTHER AGRICULTURE ELECTIVES--Total			At least 18
Agr. 100 (For Freshmen)	0		Agr. prescribed and elective must			hours of
			equal at least 35 hours.			Agr. must
			(See suggested electives)	HOURS	GRADE	be completed
14 HOURS FROM:						in residence.
Agr. Econ. 100	3					Transfer:
Agr. Eng. 101	3					Residence:
Agr. 114	3					Earned:
Agron. 121	4					To be
An. Sci. 100	3					earned:
An. Sci. 102 or						
Da. Sci. 102	3					
Da. Sci. 100	3					
Forestry 100	3					
Home Econ. 120	2					
Hort. 100	3					
Agron. 100, An. Sci. 100,			COMMERCE AND BUS. ADM.--Requirements: a minimum			
Da. Sci. 100 or Hort, 110	3		of 26 hours including:			
Rur. Soc. 117	3		Accy. 101 and 105,			
			or 201	3-6		
NON-AGRICULTURE PRESCRIBED:			Econ. 108	3		
Botany 100	4		Econ. 109	3		
			Econ. 170	3		
Chem. 101, 102, or 111	3-5		Finance 250 or 254	3		
			Mktg. 271	2		
Chem. 132	3		Electives chosen from: accy., bus. law,			Earned:
			econ., finance, mgmt., and mktg.			To be
Geology 101 or 105	4-3					earned:
Math. Placement Test or			SOCIAL SCIENCE (other than Econ.)--9 hours from			
Math. 111, 112 or 104	3-5		anthro., geog., hist., pol. sci., psych., or soc.			Earned:
						To be
Rhetoric 101	3					earned:
Rhetoric 102	3					
Speech, Journ. or Rhetoric			HUMANITIES--6 hours from art, music,			for. lang.,
Elective	2-3		lit., phil., or religion.			Earned:
						To be
Speech 101	3					earned:
Zoology 104	4		OPEN ELECTIVES:			
Mil.-Mil.	1-1					
Mil.-Mil.	1-1					TOTAL HOURS
P.E.-P.E.	(1-1)					
P.E.-P.E.	(1-1)					

126 hours, including military and excluding P.E., are required for the degree as outlined above. Minimum average of 3.0 is required for graduation. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at U. of I. and a combined average of 3.0 for transfer and University of Illinois work.





This curriculum is especially designed for students who plan to do graduate study in agricultural fields or for those who wish to engage in technical work requiring more science, mathematics, or engineering than is included in the General Curriculum in Agriculture. Students entering this curriculum as freshmen must have a scholarship rank in the upper half of their graduating class, and those entering as transfers must have a scholastic average in their collegiate work of not less than 3.5 in terms of the grading system of the University of Illinois. Once enrolled, they must maintain an average of at least 3.5 to remain in and graduate from the curriculum.

Options I and II provide an opportunity for planning individual programs of study under the supervision of a faculty adviser qualified in the student's special field of interest. Option III includes many prescribed courses both in agriculture and in engineering. Careful scheduling of courses is necessary.

Option I. For students desiring preparation for graduate study or technical work in animal, plant, or soil science.

Option II. For students desiring preparation for graduate study or technical work in the fields included in agricultural economics, agricultural law, and rural sociology.

Option III. For students enrolled in the five-year combined agricultural science and agricultural engineering program. All requirements of the combined curriculum as outlined on the following pages must be completed to satisfy the requirements for a degree in agriculture.

	Options I and III Minimum Hours	Option II Minimum Hours
General University Requirements (Military, Physical Education and Rhetoric)	10	10
Group I: College of Agriculture Courses	35 <sup>1/</sup>	35
Group II: Humanities (Art, Music, Language, Literature, Philosophy, Religion)	6	6
Group III: Social Science (Anthropology, Economics, Finance, Geography, History, Political Science, Psychology, Sociology)	6	16 <sup>3/</sup>
Group IV: Biological Science (Bacteriology, Botany, Entomology, Physiology, Zoology)	10 <sup>2/</sup>	6
Group V: Physical Science (Chemistry, Geology, Mathematics, Physics) <sup>4/</sup>	10 <sup>2/</sup>	16
Electives (unrestricted)	<u>24</u>	<u>37</u>
TOTAL required for graduation	126	126

<sup>1/</sup>In Option III, a maximum of 15 hours of agricultural engineering courses may be credited toward the degree in agriculture.

<sup>2/</sup>Students in Options I and III must complete a total of 45 hours in Groups IV and V combined with a minimum of 10 hours in each.

<sup>3/</sup>Students in Option II must include at least 8 hours in economics.

<sup>4/</sup>In Option III, T.A.M. 150 and 211 may be counted toward Group V.





Agricultural Science Curriculum  
Option III  
5-Year Combined Program in  
Agricultural Science and Agricultural Engineering  
(for the degrees, Bachelor of Science in Agriculture  
and Bachelor of Science in Agricultural Engineering)

First Year  
(Enroll in College of Agriculture)

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Agric. 100--Lectures for Freshmen	0	Chem. 104--Chemistry of Metallic Elements <sup>1</sup>	4
Chem. 102 or 103--General Chem. <sup>1</sup>	3 or 4	G.E. 101--Engr. Graph. Commun.	3
Eng. 100--Engineering Lectures	0	Math. 123--Analytical Geometry	5
Math. 111 or 112--Coll. Alg. <sup>2</sup>	5 or 3	Rhet. 102--Rhetoric and Comp.	3
Math. 114--Plane Trig. <sup>2</sup>	2	Physical Education	(1)
Rhet. 101--Rhetoric and Comp.	3	Military (men)	1
Physical Education	(1)		
Military (men)	1		
Total	13 to 16	Total	17

Second Year

Agr. Eng. 146--Farm Tractors	2	Agr. Eng. 156--Surveying and Soil and Water Engineering	3
Botany 100--General Botany	4	Math. 143--Calculus	5
Math. 133--Calculus	3	Physics 107--General Physics (Heat, Elect., Magnetism)	4
Physics 106--General Physics (Mechanics)	4	T.A.M. 150--Statics	2
Speech 101--Effective Speaking	3	Physical Education	(1)
Physical Education	(1)	Military (men)	1
Military (men)	1	Elective <sup>3</sup>	0-3
Total	18	Total	16 to 19

Third Year

Agr. Eng. 236--Farm Machine Characteristics and Mechanisms	2	Agron. 121--Crop Production	4
Physics 108--General Physics (Sound, Light, Mod. Phy.)	4	Agr. Econ. 220--Farm Management	3
G.E. 102--Engr. Geometry	3	Econ. 108--Elem. of Econ.	3
T.A.M. 211--Dynamics	3	T.A.M. 221--Elementary Mechanics of Deformable Bodies	3
Math. 345--Differential Equations and Orthogonal Functions		T.A.M. 223--Mechanical Behavior of Solids	1
Or		Elective <sup>3</sup>	3
Math. 263--Statistics in Engineering and Physical Sciences	3	Total	17
Elective <sup>3</sup>	3		
Total	18		

Agricultural Extension Service  
 United States Department of Agriculture  
 Bureau of Plant Industry  
 Washington, D. C.  
 The following is a list of the plants  
 and animals which are being introduced

(Listed in the order of their introduction)

Year	Plant	Year	Animal
1900	1. <i>Pinus strobus</i> (White Pine)	1900	1. <i>Canis lupus</i> (Wolf)
1901	2. <i>Pinus resinosa</i> (Resin Pine)	1901	2. <i>Canis familiaris</i> (Dog)
1902	3. <i>Pinus mitis</i> (Mite Pine)	1902	3. <i>Canis latrans</i> (Coon)
1903	4. <i>Pinus strobus</i> (White Pine)	1903	4. <i>Canis familiaris</i> (Dog)
1904	5. <i>Pinus resinosa</i> (Resin Pine)	1904	5. <i>Canis latrans</i> (Coon)
1905	6. <i>Pinus mitis</i> (Mite Pine)	1905	6. <i>Canis familiaris</i> (Dog)
1906	7. <i>Pinus strobus</i> (White Pine)	1906	7. <i>Canis latrans</i> (Coon)
1907	8. <i>Pinus resinosa</i> (Resin Pine)	1907	8. <i>Canis familiaris</i> (Dog)
1908	9. <i>Pinus mitis</i> (Mite Pine)	1908	9. <i>Canis latrans</i> (Coon)
1909	10. <i>Pinus strobus</i> (White Pine)	1909	10. <i>Canis familiaris</i> (Dog)
1910	11. <i>Pinus resinosa</i> (Resin Pine)	1910	11. <i>Canis latrans</i> (Coon)
1911	12. <i>Pinus mitis</i> (Mite Pine)	1911	12. <i>Canis familiaris</i> (Dog)
1912	13. <i>Pinus strobus</i> (White Pine)	1912	13. <i>Canis latrans</i> (Coon)
1913	14. <i>Pinus resinosa</i> (Resin Pine)	1913	14. <i>Canis familiaris</i> (Dog)
1914	15. <i>Pinus mitis</i> (Mite Pine)	1914	15. <i>Canis latrans</i> (Coon)
1915	16. <i>Pinus strobus</i> (White Pine)	1915	16. <i>Canis familiaris</i> (Dog)
1916	17. <i>Pinus resinosa</i> (Resin Pine)	1916	17. <i>Canis latrans</i> (Coon)
1917	18. <i>Pinus mitis</i> (Mite Pine)	1917	18. <i>Canis familiaris</i> (Dog)
1918	19. <i>Pinus strobus</i> (White Pine)	1918	19. <i>Canis latrans</i> (Coon)
1919	20. <i>Pinus resinosa</i> (Resin Pine)	1919	20. <i>Canis familiaris</i> (Dog)
1920	21. <i>Pinus mitis</i> (Mite Pine)	1920	21. <i>Canis latrans</i> (Coon)
1921	22. <i>Pinus strobus</i> (White Pine)	1921	22. <i>Canis familiaris</i> (Dog)
1922	23. <i>Pinus resinosa</i> (Resin Pine)	1922	23. <i>Canis latrans</i> (Coon)
1923	24. <i>Pinus mitis</i> (Mite Pine)	1923	24. <i>Canis familiaris</i> (Dog)
1924	25. <i>Pinus strobus</i> (White Pine)	1924	25. <i>Canis latrans</i> (Coon)
1925	26. <i>Pinus resinosa</i> (Resin Pine)	1925	26. <i>Canis familiaris</i> (Dog)
1926	27. <i>Pinus mitis</i> (Mite Pine)	1926	27. <i>Canis latrans</i> (Coon)
1927	28. <i>Pinus strobus</i> (White Pine)	1927	28. <i>Canis familiaris</i> (Dog)
1928	29. <i>Pinus resinosa</i> (Resin Pine)	1928	29. <i>Canis latrans</i> (Coon)
1929	30. <i>Pinus mitis</i> (Mite Pine)	1929	30. <i>Canis familiaris</i> (Dog)
1930	31. <i>Pinus strobus</i> (White Pine)	1930	31. <i>Canis latrans</i> (Coon)
1931	32. <i>Pinus resinosa</i> (Resin Pine)	1931	32. <i>Canis familiaris</i> (Dog)
1932	33. <i>Pinus mitis</i> (Mite Pine)	1932	33. <i>Canis latrans</i> (Coon)
1933	34. <i>Pinus strobus</i> (White Pine)	1933	34. <i>Canis familiaris</i> (Dog)
1934	35. <i>Pinus resinosa</i> (Resin Pine)	1934	35. <i>Canis latrans</i> (Coon)
1935	36. <i>Pinus mitis</i> (Mite Pine)	1935	36. <i>Canis familiaris</i> (Dog)
1936	37. <i>Pinus strobus</i> (White Pine)	1936	37. <i>Canis latrans</i> (Coon)
1937	38. <i>Pinus resinosa</i> (Resin Pine)	1937	38. <i>Canis familiaris</i> (Dog)
1938	39. <i>Pinus mitis</i> (Mite Pine)	1938	39. <i>Canis latrans</i> (Coon)
1939	40. <i>Pinus strobus</i> (White Pine)	1939	40. <i>Canis familiaris</i> (Dog)
1940	41. <i>Pinus resinosa</i> (Resin Pine)	1940	41. <i>Canis latrans</i> (Coon)
1941	42. <i>Pinus mitis</i> (Mite Pine)	1941	42. <i>Canis familiaris</i> (Dog)
1942	43. <i>Pinus strobus</i> (White Pine)	1942	43. <i>Canis latrans</i> (Coon)
1943	44. <i>Pinus resinosa</i> (Resin Pine)	1943	44. <i>Canis familiaris</i> (Dog)
1944	45. <i>Pinus mitis</i> (Mite Pine)	1944	45. <i>Canis latrans</i> (Coon)
1945	46. <i>Pinus strobus</i> (White Pine)	1945	46. <i>Canis familiaris</i> (Dog)
1946	47. <i>Pinus resinosa</i> (Resin Pine)	1946	47. <i>Canis latrans</i> (Coon)
1947	48. <i>Pinus mitis</i> (Mite Pine)	1947	48. <i>Canis familiaris</i> (Dog)
1948	49. <i>Pinus strobus</i> (White Pine)	1948	49. <i>Canis latrans</i> (Coon)
1949	50. <i>Pinus resinosa</i> (Resin Pine)	1949	50. <i>Canis familiaris</i> (Dog)
1950	51. <i>Pinus mitis</i> (Mite Pine)	1950	51. <i>Canis latrans</i> (Coon)
1951	52. <i>Pinus strobus</i> (White Pine)	1951	52. <i>Canis familiaris</i> (Dog)
1952	53. <i>Pinus resinosa</i> (Resin Pine)	1952	53. <i>Canis latrans</i> (Coon)
1953	54. <i>Pinus mitis</i> (Mite Pine)	1953	54. <i>Canis familiaris</i> (Dog)
1954	55. <i>Pinus strobus</i> (White Pine)	1954	55. <i>Canis latrans</i> (Coon)
1955	56. <i>Pinus resinosa</i> (Resin Pine)	1955	56. <i>Canis familiaris</i> (Dog)
1956	57. <i>Pinus mitis</i> (Mite Pine)	1956	57. <i>Canis latrans</i> (Coon)
1957	58. <i>Pinus strobus</i> (White Pine)	1957	58. <i>Canis familiaris</i> (Dog)
1958	59. <i>Pinus resinosa</i> (Resin Pine)	1958	59. <i>Canis latrans</i> (Coon)
1959	60. <i>Pinus mitis</i> (Mite Pine)	1959	60. <i>Canis familiaris</i> (Dog)
1960	61. <i>Pinus strobus</i> (White Pine)	1960	61. <i>Canis latrans</i> (Coon)
1961	62. <i>Pinus resinosa</i> (Resin Pine)	1961	62. <i>Canis familiaris</i> (Dog)
1962	63. <i>Pinus mitis</i> (Mite Pine)	1962	63. <i>Canis latrans</i> (Coon)
1963	64. <i>Pinus strobus</i> (White Pine)	1963	64. <i>Canis familiaris</i> (Dog)
1964	65. <i>Pinus resinosa</i> (Resin Pine)	1964	65. <i>Canis latrans</i> (Coon)
1965	66. <i>Pinus mitis</i> (Mite Pine)	1965	66. <i>Canis familiaris</i> (Dog)
1966	67. <i>Pinus strobus</i> (White Pine)	1966	67. <i>Canis latrans</i> (Coon)
1967	68. <i>Pinus resinosa</i> (Resin Pine)	1967	68. <i>Canis familiaris</i> (Dog)
1968	69. <i>Pinus mitis</i> (Mite Pine)	1968	69. <i>Canis latrans</i> (Coon)
1969	70. <i>Pinus strobus</i> (White Pine)	1969	70. <i>Canis familiaris</i> (Dog)
1970	71. <i>Pinus resinosa</i> (Resin Pine)	1970	71. <i>Canis latrans</i> (Coon)
1971	72. <i>Pinus mitis</i> (Mite Pine)	1971	72. <i>Canis familiaris</i> (Dog)
1972	73. <i>Pinus strobus</i> (White Pine)	1972	73. <i>Canis latrans</i> (Coon)
1973	74. <i>Pinus resinosa</i> (Resin Pine)	1973	74. <i>Canis familiaris</i> (Dog)
1974	75. <i>Pinus mitis</i> (Mite Pine)	1974	75. <i>Canis latrans</i> (Coon)
1975	76. <i>Pinus strobus</i> (White Pine)	1975	76. <i>Canis familiaris</i> (Dog)
1976	77. <i>Pinus resinosa</i> (Resin Pine)	1976	77. <i>Canis latrans</i> (Coon)
1977	78. <i>Pinus mitis</i> (Mite Pine)	1977	78. <i>Canis familiaris</i> (Dog)
1978	79. <i>Pinus strobus</i> (White Pine)	1978	79. <i>Canis latrans</i> (Coon)
1979	80. <i>Pinus resinosa</i> (Resin Pine)	1979	80. <i>Canis familiaris</i> (Dog)
1980	81. <i>Pinus mitis</i> (Mite Pine)	1980	81. <i>Canis latrans</i> (Coon)
1981	82. <i>Pinus strobus</i> (White Pine)	1981	82. <i>Canis familiaris</i> (Dog)
1982	83. <i>Pinus resinosa</i> (Resin Pine)	1982	83. <i>Canis latrans</i> (Coon)
1983	84. <i>Pinus mitis</i> (Mite Pine)	1983	84. <i>Canis familiaris</i> (Dog)
1984	85. <i>Pinus strobus</i> (White Pine)	1984	85. <i>Canis latrans</i> (Coon)
1985	86. <i>Pinus resinosa</i> (Resin Pine)	1985	86. <i>Canis familiaris</i> (Dog)
1986	87. <i>Pinus mitis</i> (Mite Pine)	1986	87. <i>Canis latrans</i> (Coon)
1987	88. <i>Pinus strobus</i> (White Pine)	1987	88. <i>Canis familiaris</i> (Dog)
1988	89. <i>Pinus resinosa</i> (Resin Pine)	1988	89. <i>Canis latrans</i> (Coon)
1989	90. <i>Pinus mitis</i> (Mite Pine)	1989	90. <i>Canis familiaris</i> (Dog)
1990	91. <i>Pinus strobus</i> (White Pine)	1990	91. <i>Canis latrans</i> (Coon)
1991	92. <i>Pinus resinosa</i> (Resin Pine)	1991	92. <i>Canis familiaris</i> (Dog)
1992	93. <i>Pinus mitis</i> (Mite Pine)	1992	93. <i>Canis latrans</i> (Coon)
1993	94. <i>Pinus strobus</i> (White Pine)	1993	94. <i>Canis familiaris</i> (Dog)
1994	95. <i>Pinus resinosa</i> (Resin Pine)	1994	95. <i>Canis latrans</i> (Coon)
1995	96. <i>Pinus mitis</i> (Mite Pine)	1995	96. <i>Canis familiaris</i> (Dog)
1996	97. <i>Pinus strobus</i> (White Pine)	1996	97. <i>Canis latrans</i> (Coon)
1997	98. <i>Pinus resinosa</i> (Resin Pine)	1997	98. <i>Canis familiaris</i> (Dog)
1998	99. <i>Pinus mitis</i> (Mite Pine)	1998	99. <i>Canis latrans</i> (Coon)
1999	100. <i>Pinus strobus</i> (White Pine)	1999	100. <i>Canis familiaris</i> (Dog)
2000	101. <i>Pinus resinosa</i> (Resin Pine)	2000	101. <i>Canis latrans</i> (Coon)
2001	102. <i>Pinus mitis</i> (Mite Pine)	2001	102. <i>Canis familiaris</i> (Dog)
2002	103. <i>Pinus strobus</i> (White Pine)	2002	103. <i>Canis latrans</i> (Coon)
2003	104. <i>Pinus resinosa</i> (Resin Pine)	2003	104. <i>Canis familiaris</i> (Dog)
2004	105. <i>Pinus mitis</i> (Mite Pine)	2004	105. <i>Canis latrans</i> (Coon)
2005	106. <i>Pinus strobus</i> (White Pine)	2005	106. <i>Canis familiaris</i> (Dog)
2006	107. <i>Pinus resinosa</i> (Resin Pine)	2006	107. <i>Canis latrans</i> (Coon)
2007	108. <i>Pinus mitis</i> (Mite Pine)	2007	108. <i>Canis familiaris</i> (Dog)
2008	109. <i>Pinus strobus</i> (White Pine)	2008	109. <i>Canis latrans</i> (Coon)
2009	110. <i>Pinus resinosa</i> (Resin Pine)	2009	110. <i>Canis familiaris</i> (Dog)
2010	111. <i>Pinus mitis</i> (Mite Pine)	2010	111. <i>Canis latrans</i> (Coon)
2011	112. <i>Pinus strobus</i> (White Pine)	2011	112. <i>Canis familiaris</i> (Dog)
2012	113. <i>Pinus resinosa</i> (Resin Pine)	2012	113. <i>Canis latrans</i> (Coon)
2013	114. <i>Pinus mitis</i> (Mite Pine)	2013	114. <i>Canis familiaris</i> (Dog)
2014	115. <i>Pinus strobus</i> (White Pine)	2014	115. <i>Canis latrans</i> (Coon)
2015	116. <i>Pinus resinosa</i> (Resin Pine)	2015	116. <i>Canis familiaris</i> (Dog)
2016	117. <i>Pinus mitis</i> (Mite Pine)	2016	117. <i>Canis latrans</i> (Coon)
2017	118. <i>Pinus strobus</i> (White Pine)	2017	118. <i>Canis familiaris</i> (Dog)
2018	119. <i>Pinus resinosa</i> (Resin Pine)	2018	119. <i>Canis latrans</i> (Coon)
2019	120. <i>Pinus mitis</i> (Mite Pine)	2019	120. <i>Canis familiaris</i> (Dog)
2020	121. <i>Pinus strobus</i> (White Pine)	2020	121. <i>Canis latrans</i> (Coon)
2021	122. <i>Pinus resinosa</i> (Resin Pine)	2021	122. <i>Canis familiaris</i> (Dog)
2022	123. <i>Pinus mitis</i> (Mite Pine)	2022	123. <i>Canis latrans</i> (Coon)
2023	124. <i>Pinus strobus</i> (White Pine)	2023	124. <i>Canis familiaris</i> (Dog)
2024	125. <i>Pinus resinosa</i> (Resin Pine)	2024	125. <i>Canis latrans</i> (Coon)
2025	126. <i>Pinus mitis</i> (Mite Pine)	2025	126. <i>Canis familiaris</i> (Dog)
2026	127. <i>Pinus strobus</i> (White Pine)	2026	127. <i>Canis latrans</i> (Coon)
2027	128. <i>Pinus resinosa</i> (Resin Pine)	2027	128. <i>Canis familiaris</i> (Dog)
2028	129. <i>Pinus mitis</i> (Mite Pine)	2028	129. <i>Canis latrans</i> (Coon)
2029	130. <i>Pinus strobus</i> (White Pine)	2029	130. <i>Canis familiaris</i> (Dog)
2030	131. <i>Pinus resinosa</i> (Resin Pine)	2030	131. <i>Canis latrans</i> (Coon)
2031	132. <i>Pinus mitis</i> (Mite Pine)	2031	132. <i>Canis familiaris</i> (Dog)
2032	133. <i>Pinus strobus</i> (White Pine)	2032	133. <i>Canis latrans</i> (Coon)
2033	134. <i>Pinus resinosa</i> (Resin Pine)	2033	134. <i>Canis familiaris</i> (Dog)
2034	135. <i>Pinus mitis</i> (Mite Pine)	2034	135. <i>Canis latrans</i> (Coon)
2035	136. <i>Pinus strobus</i> (White Pine)	2035	136. <i>Canis familiaris</i> (Dog)
2036	137. <i>Pinus resinosa</i> (Resin Pine)	2036	137. <i>Canis latrans</i> (Coon)
2037	138. <i>Pinus mitis</i> (Mite Pine)	2037	138. <i>Canis familiaris</i> (Dog)
2038	139. <i>Pinus strobus</i> (White Pine)	2038	139. <i>Canis latrans</i> (Coon)
2039	140. <i>Pinus resinosa</i> (Resin Pine)	2039	140. <i>Canis familiaris</i> (Dog)
2040	141. <i>Pinus mitis</i> (Mite Pine)	2040	141. <i>Canis latrans</i> (Coon)
2041	142. <i>Pinus strobus</i> (White Pine)	2041	142. <i>Canis familiaris</i> (Dog)
2042	143. <i>Pinus resinosa</i> (Resin Pine)	2042	143. <i>Canis latrans</i> (Coon)
2043	144. <i>Pinus mitis</i> (Mite Pine)	2043	144. <i>Canis familiaris</i> (Dog)
2044	145. <i>Pinus strobus</i> (White Pine)	2044	145. <i>Canis latrans</i> (Coon)
2045	146. <i>Pinus resinosa</i> (Resin Pine)	2045	146. <i>Canis familiaris</i> (Dog)
2046	147. <i>Pinus mitis</i> (Mite Pine)	2046	147. <i>Canis latrans</i> (Coon)
2047	148. <i>Pinus strobus</i> (White Pine)	2047	148. <i>Canis familiaris</i> (Dog)
2048	149. <i>Pinus resinosa</i> (Resin Pine)	2048	149. <i>Canis latrans</i> (Coon)
2049	150. <i>Pinus mitis</i> (Mite Pine)	2049	150. <i>Canis familiaris</i> (Dog)
2050	151. <i>Pinus strobus</i> (White Pine)	2050	151. <i>Canis latrans</i> (Coon)
2051	152. <i>Pinus resinosa</i> (Resin Pine)	2051	152. <i>Canis familiaris</i> (Dog)
2052	153. <i>Pinus mitis</i> (Mite Pine)	2052	153. <i>Canis latrans</i> (Coon)
2053	154. <i>Pinus strobus</i> (White Pine)	2053	154. <i>Canis familiaris</i> (Dog)
2054	155. <i>Pinus resinosa</i> (Resin Pine)	2054	155. <i>Canis latrans</i> (Coon)
2055	156. <i>Pinus mitis</i> (Mite Pine)	2055	156. <i>Canis familiaris</i> (Dog)
2056	157. <i>Pinus strobus</i> (White Pine)	2056	157. <i>Canis latrans</i> (Coon)
2057	158. <i>Pinus resinosa</i> (Resin Pine)	2057	158. <i>Canis familiaris</i> (Dog)
2058	159. <i>Pinus mitis</i> (Mite Pine)	2058	159. <i>Canis latrans</i> (Coon)
2059	160. <i>Pinus strobus</i> (White Pine)	2059	160. <i>Canis familiaris</i> (Dog)
2060	161. <i>Pinus resinosa</i> (Resin Pine)	2060	161. <i>Canis latrans</i> (Coon)
2061	162. <i>Pinus mitis</i> (Mite Pine)	2061	162. <i>Canis familiaris</i> (Dog)
2062	163. <i>Pinus strobus</i> (White Pine)	2062	163. <i>Canis latrans</i> (Coon)
2063	164. <i>Pinus resinosa</i> (Resin Pine)	2063	164. <i>Canis familiaris</i> (Dog)
2064	165. <i>Pinus mitis</i> (Mite Pine)	2064	165. <i>Canis latrans</i> (Coon)
2065	166. <i>Pinus strobus</i> (White Pine)	2065	166. <i>Canis familiaris</i> (Dog)
2066	167. <i>Pinus resinosa</i> (Resin Pine)	2066	167. <i>Canis latrans</i> (Coon)
2067	168. <i>Pinus mitis</i> (Mite Pine)	2067	168. <i>Canis familiaris</i> (Dog)
2068	169. <i>Pinus strobus</i> (White Pine)	2068	169. <i>Canis latrans</i> (Coon)
2069	170. <i>Pinus resinosa</i> (Resin Pine)	2069	170. <i>Canis familiaris</i> (Dog)
2070	171. <i>Pinus mitis</i> (Mite Pine)	2070	171. <i>Canis latrans</i> (Coon)
2071	172. <i>Pinus strobus</i> (White Pine)	2071	172. <i>Canis familiaris</i> (Dog)
2072	173. <i>Pinus resinosa</i> (Resin Pine)	2072	173. <i>Canis latrans</i> (Coon)
2073	174. <i>Pinus mitis</i> (Mite Pine)	2073	174. <i>Canis familiaris</i> (Dog)
2074	175. <i>Pinus strobus</i> (White Pine)	2074	175. <i>Canis latrans</i> (Coon)
2075	176. <i>Pinus resinosa</i> (Resin Pine)	2075	176. <i>Canis familiaris</i> (Dog)
2076	177. <i>Pinus mitis</i> (Mite Pine)	2076	177. <i>Canis latrans</i> (Coon)
2077	178. <i>Pinus strobus</i> (White Pine)	2077	178. <i>Canis familiaris</i> (Dog)
2078	179. <i>Pinus resinosa</i> (Resin Pine)	2078	179. <i>Canis latrans</i> (Coon)
2079	180. <i>Pinus mitis</i> (Mite Pine)	2079	180. <i>Canis familiaris</i> (Dog)
2080	181. <i>Pinus strobus</i> (White Pine)	2080	181. <i>Canis latrans</i> (Coon)
2081	182. <i>Pinus resinosa</i> (Resin Pine)	2081	182. <i>Canis familiaris</i> (



Fourth Year  
(May transfer to Engineering)

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Agron. 202 - Soils	4	Agr. Eng. 276 - Des. of Farm Struct.	3
E.E. 220 - Basic Elect. Eng.	3	Agr. Eng. 286 - Elect. in Agr.	2
M.E. 209 - Thermodynamics	3	T.A.M. 232 - Fluid Mechanics	3
Option	5	T.A.M. 234 - Fluid Mechanics (lab)	1
Elective <sup>3/</sup>	<u>3</u>	Option	3
		Elective <sup>3/</sup>	<u>6</u>
Total	18	Total	<u>18</u>

Fifth Year  
(Must be enrolled in Engineering)

Agr. Eng. 299 - Inspection trip	0	Agr. Eng. 396 - Special problems	3
Option	9	Option	3
Elective <sup>3/</sup>	<u>9</u>	Elective <sup>3/</sup>	<u>8 or 9</u>
Total	<u>18</u>	Total	<u>14 to 15</u>

OPTIONS - each student will select one of the following groups:

	<u>Hours</u>
<b>Farm Electrification and Processsing</b>	
Agr. Eng. 287 - Electricity in Agriculture (Advanced Course) . . . . .	3
Agr. Eng. 387 - Agricultural Process Engineering. . . . .	3
Technical Elective. . . . .	8 or 6
C.E. 261 - Theory of Determinate Structures and	
Agr. Eng. 277 - Design of Concrete and Steel Structures in Agriculture	
OR	
M.E. 221 - Mechanics of Machinery and	
M.E. 224 - Design of Machine Elements. . . . .	<u>6 or 8</u>
	20
<b>Power and Machinery</b>	
Agr. Eng. 336 - Design of Agricultural Machinery. . . . .	3
Agr. Eng. 346 - Farm Power. . . . .	3
M.E. 221 - Mechanics of Machinery. . . . .	5
M.E. 224 - Design of Machine Elements. . . . .	3
M.E. 234 - Heat Treatment of Metals. . . . .	3
M.E. 271 - Design of Machine Elements. . . . .	<u>3</u>
	20
<b>Soil and Water</b>	
Agr. Eng. 277 - Design of Concrete and Steel Structures in Agriculture.	3
Agr. Eng. 357 - Land Drainage . . . . .	3
Agr. Eng. 356 - Soil Conservation Structures. . . . .	3
C.E. 261 - Theory of Determinate Structures. . . . .	3
C.E. 262 - Theory of Indeterminate Structures. . . . .	3
Technical Elective. . . . .	<u>5</u>
	20

APR 1947 - 1948 - 1949 - 1950 - 1951 - 1952 - 1953 - 1954 - 1955 - 1956 - 1957 - 1958 - 1959 - 1960 - 1961 - 1962 - 1963 - 1964 - 1965 - 1966 - 1967 - 1968 - 1969 - 1970 - 1971 - 1972 - 1973 - 1974 - 1975 - 1976 - 1977 - 1978 - 1979 - 1980 - 1981 - 1982 - 1983 - 1984 - 1985 - 1986 - 1987 - 1988 - 1989 - 1990 - 1991 - 1992 - 1993 - 1994 - 1995 - 1996 - 1997 - 1998 - 1999 - 2000 - 2001 - 2002 - 2003 - 2004 - 2005 - 2006 - 2007 - 2008 - 2009 - 2010 - 2011 - 2012 - 2013 - 2014 - 2015 - 2016 - 2017 - 2018 - 2019 - 2020 - 2021 - 2022 - 2023 - 2024 - 2025 - 2026 - 2027 - 2028 - 2029 - 2030 - 2031 - 2032 - 2033 - 2034 - 2035 - 2036 - 2037 - 2038 - 2039 - 2040 - 2041 - 2042 - 2043 - 2044 - 2045 - 2046 - 2047 - 2048 - 2049 - 2050 - 2051 - 2052 - 2053 - 2054 - 2055 - 2056 - 2057 - 2058 - 2059 - 2060 - 2061 - 2062 - 2063 - 2064 - 2065 - 2066 - 2067 - 2068 - 2069 - 2070 - 2071 - 2072 - 2073 - 2074 - 2075 - 2076 - 2077 - 2078 - 2079 - 2080 - 2081 - 2082 - 2083 - 2084 - 2085 - 2086 - 2087 - 2088 - 2089 - 2090 - 2091 - 2092 - 2093 - 2094 - 2095 - 2096 - 2097 - 2098 - 2099 - 2100 - 2101 - 2102 - 2103 - 2104 - 2105 - 2106 - 2107 - 2108 - 2109 - 2110 - 2111 - 2112 - 2113 - 2114 - 2115 - 2116 - 2117 - 2118 - 2119 - 2120 - 2121 - 2122 - 2123 - 2124 - 2125 - 2126 - 2127 - 2128 - 2129 - 2130 - 2131 - 2132 - 2133 - 2134 - 2135 - 2136 - 2137 - 2138 - 2139 - 2140 - 2141 - 2142 - 2143 - 2144 - 2145 - 2146 - 2147 - 2148 - 2149 - 2150 - 2151 - 2152 - 2153 - 2154 - 2155 - 2156 - 2157 - 2158 - 2159 - 2160 - 2161 - 2162 - 2163 - 2164 - 2165 - 2166 - 2167 - 2168 - 2169 - 2170 - 2171 - 2172 - 2173 - 2174 - 2175 - 2176 - 2177 - 2178 - 2179 - 2180 - 2181 - 2182 - 2183 - 2184 - 2185 - 2186 - 2187 - 2188 - 2189 - 2190 - 2191 - 2192 - 2193 - 2194 - 2195 - 2196 - 2197 - 2198 - 2199 - 2200 - 2201 - 2202 - 2203 - 2204 - 2205 - 2206 - 2207 - 2208 - 2209 - 2210 - 2211 - 2212 - 2213 - 2214 - 2215 - 2216 - 2217 - 2218 - 2219 - 2220 - 2221 - 2222 - 2223 - 2224 - 2225 - 2226 - 2227 - 2228 - 2229 - 2230 - 2231 - 2232 - 2233 - 2234 - 2235 - 2236 - 2237 - 2238 - 2239 - 2240 - 2241 - 2242 - 2243 - 2244 - 2245 - 2246 - 2247 - 2248 - 2249 - 2250 - 2251 - 2252 - 2253 - 2254 - 2255 - 2256 - 2257 - 2258 - 2259 - 2260 - 2261 - 2262 - 2263 - 2264 - 2265 - 2266 - 2267 - 2268 - 2269 - 2270 - 2271 - 2272 - 2273 - 2274 - 2275 - 2276 - 2277 - 2278 - 2279 - 2280 - 2281 - 2282 - 2283 - 2284 - 2285 - 2286 - 2287 - 2288 - 2289 - 2290 - 2291 - 2292 - 2293 - 2294 - 2295 - 2296 - 2297 - 2298 - 2299 - 2300 - 2301 - 2302 - 2303 - 2304 - 2305 - 2306 - 2307 - 2308 - 2309 - 2310 - 2311 - 2312 - 2313 - 2314 - 2315 - 2316 - 2317 - 2318 - 2319 - 2320 - 2321 - 2322 - 2323 - 2324 - 2325 - 2326 - 2327 - 2328 - 2329 - 2330 - 2331 - 2332 - 2333 - 2334 - 2335 - 2336 - 2337 - 2338 - 2339 - 2340 - 2341 - 2342 - 2343 - 2344 - 2345 - 2346 - 2347 - 2348 - 2349 - 2350 - 2351 - 2352 - 2353 - 2354 - 2355 - 2356 - 2357 - 2358 - 2359 - 2360 - 2361 - 2362 - 2363 - 2364 - 2365 - 2366 - 2367 - 2368 - 2369 - 2370 - 2371 - 2372 - 2373 - 2374 - 2375 - 2376 - 2377 - 2378 - 2379 - 2380 - 2381 - 2382 - 2383 - 2384 - 2385 - 2386 - 2387 - 2388 - 2389 - 2390 - 2391 - 2392 - 2393 - 2394 - 2395 - 2396 - 2397 - 2398 - 2399 - 2400 - 2401 - 2402 - 2403 - 2404 - 2405 - 2406 - 2407 - 2408 - 2409 - 2410 - 2411 - 2412 - 2413 - 2414 - 2415 - 2416 - 2417 - 2418 - 2419 - 2420 - 2421 - 2422 - 2423 - 2424 - 2425 - 2426 - 2427 - 2428 - 2429 - 2430 - 2431 - 2432 - 2433 - 2434 - 2435 - 2436 - 2437 - 2438 - 2439 - 2440 - 2441 - 2442 - 2443 - 2444 - 2445 - 2446 - 2447 - 2448 - 2449 - 2450 - 2451 - 2452 - 2453 - 2454 - 2455 - 2456 - 2457 - 2458 - 2459 - 2460 - 2461 - 2462 - 2463 - 2464 - 2465 - 2466 - 2467 - 2468 - 2469 - 2470 - 2471 - 2472 - 2473 - 2474 - 2475 - 2476 - 2477 - 2478 - 2479 - 2480 - 2481 - 2482 - 2483 - 2484 - 2485 - 2486 - 2487 - 2488 - 2489 - 2490 - 2491 - 2492 - 2493 - 2494 - 2495 - 2496 - 2497 - 2498 - 2499 - 2500 - 2501 - 2502 - 2503 - 2504 - 2505 - 2506 - 2507 - 2508 - 2509 - 2510 - 2511 - 2512 - 2513 - 2514 - 2515 - 2516 - 2517 - 2518 - 2519 - 2520 - 2521 - 2522 - 2523 - 2524 - 2525 - 2526 - 2527 - 2528 - 2529 - 2530 - 2531 - 2532 - 2533 - 2534 - 2535 - 2536 - 2537 - 2538 - 2539 - 2540 - 2541 - 2542 - 2543 - 2544 - 2545 - 2546 - 2547 - 2548 - 2549 - 2550 - 2551 - 2552 - 2553 - 2554 - 2555 - 2556 - 2557 - 2558 - 2559 - 2560 - 2561 - 2562 - 2563 - 2564 - 2565 - 2566 - 2567 - 2568 - 2569 - 2570 - 2571 - 2572 - 2573 - 2574 - 2575 - 2576 - 2577 - 2578 - 2579 - 2580 - 2581 - 2582 - 2583 - 2584 - 2585 - 2586 - 2587 - 2588 - 2589 - 2590 - 2591 - 2592 - 2593 - 2594 - 2595 - 2596 - 2597 - 2598 - 2599 - 2600 - 2601 - 2602 - 2603 - 2604 - 2605 - 2606 - 2607 - 2608 - 2609 - 2610 - 2611 - 2612 - 2613 - 2614 - 2615 - 2616 - 2617 - 2618 - 2619 - 2620 - 2621 - 2622 - 2623 - 2624 - 2625 - 2626 - 2627 - 2628 -

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[illegible]

1. The first group of people who are interested in the study of the history of the United States are the people who are interested in the history of the United States. This group includes the people who are interested in the history of the United States, the people who are interested in the history of the United States, and the people who are interested in the history of the United States.



### Farm Structures

Agr. Eng. 277 - Design of Concrete and Steel Structures in Agriculture. . . . .	3
Agr. Eng. 376 - Advanced Design of Farm Structures. . . . .	3
C. E. 261 - Theory of Determinate Structures. . . . .	3
C. E. 262 - Theory of Indeterminate Structures. . . . .	3
Agr. Eng. Elective. . . . .	3
Technical Elective . . . . .	5
	<u>20</u>

1/ Students in the upper 1/4 of their high school class who have had one year of high school chemistry may take Chem. 109, 5 hours, to complete their chemistry requirements.

2/ Students with three to four years of high school mathematics, including trigonometry, and a satisfactory grade on the mathematics placement tests may take Mathematics 123 the first semester and follow the Common Program for Freshmen in the College of Engineering. This may require three additional hours of physical science to meet graduation requirements.

3/ Electives must include the following:

1. 9 hours of agriculture, other than Agricultural Engineering, Agronomy 121 and 202, and Agricultural Economics 220.
2. 6 hours of biological science in addition to Botany 100 (bacteriology, botany, entomology, physiology, and zoology)
3. 6 hours of humanities<sup>4/</sup> (art, language, literature, music, philosophy, and religion).
4. 3 hours of social science<sup>4/</sup> in addition to Economics 108 (anthropology, economics, finance, geography, history, political science, psychology, and sociology).
5. 2 hours of either humanities or social sciences<sup>4/</sup> in addition to the 12 hours specified in 3. and 4. above to satisfy College of Engineering requirements.
6. Sufficient open electives to total the minimum curriculum requirement of 165 hours including basic military and exclusive of physical education. All requirements of the combined curriculum as outlined must be completed to satisfy the requirements for a degree in Agriculture.

4/ Since the list of courses which the College of Engineering and the College of Agriculture accept for humanities and social sciences varies somewhat, students in this program should be careful to select those which are acceptable to both colleges.

NOTE: Students must maintain a 3.5 grade average to continue in and graduate from the Agricultural Science curriculum. Those whose average falls below this requirement must transfer to the 4-year program in the College of Engineering if they wish to obtain a degree in Agricultural Engineering or to the general curriculum in Agriculture if they wish to obtain a degree in Agriculture.





(for degree of B.S. in Agriculture)

NAME \_\_\_\_\_  
DATE \_\_\_\_\_

- 1/ In Option III, a maximum of fifteen hours of agricultural engineering courses may be credited toward the degree in Agriculture.
- 2/ Students in Option II must include at least 8 semester hours in Economics.
- 3/ All students in Options I and III must complete a total of 45 semester hours in Groups IV and V combined with a minimum of 10 hours in each.
- 4/ In Option III, T.A.M. 150 and 211 may be counted toward Group V.

126 hours, including military and excluding P.E., are required for the degree as outlined above. To enroll in this curriculum, freshmen must rank in the upper half of their high school graduating class; transfer students must have an average of 3.5 or higher. A minimum average of 3.5 is required for graduation.





## Six-Year Program in Agriculture and Law

A plan exists between the College of Agriculture and the College of Law by which a student may earn the degree of Bachelor of Science in Agriculture and the degree of Bachelor of Laws in six years. In this case the student must plan carefully so as to include all prescribed courses in agriculture during the first three years, after which he transfers to the College of Law for the fourth year. He may thus receive the agricultural degree at the end of the fourth year and the law degree at the end of the sixth year. This program can best be fitted into the Agricultural Science Curriculum under Option II.

The following listing of courses is intended as a guide. Other courses may be substituted in some cases for those listed here; however, completion of the courses as shown will assure that the student meets all requirements for the degree in the Agricultural Science Curriculum, Option II (see page 42). Students following this program should ask to be assigned an adviser for the six-year program in agriculture and law.

### SUGGESTED AGRICULTURAL SCIENCE PRE-LAW CURRICULUM (for the degree, Bachelor of Science in Agriculture)

(Six semesters in agriculture--six semesters in law)

#### A. Required courses

Rhetoric	6	
Military	4	
Physical Education	(4)	
		10

#### B. Suggested courses to meet requirements of 35 hours in agriculture (Group I)

Agriculture 100 (required of all freshmen)	0
Agricultural Economics 100, 220, 230, 302	12
Agricultural Engineering 111	3
Agronomy 121 and 201	9
Animal Science 100, 102	6
Dairy Science 100	3
Horticulture 100	3

(Students interested in Agricultural Economics 200--Special Problems in Agricultural Law, should consult with their adviser.)

#### C. Suggested courses to meet requirements of 44 hours from Groups II through V (Minimum of 6 hours in Groups II and IV; minimum of 16 hours in Groups III and V)

##### Group II Courses

Philosophy 102 or 104	3 to 4
Humanities electives	2 to 3

[illegible]

The following list of names is believed to be correct. Other names may be added to this list as more information is received. The names are listed in alphabetical order. The names are listed in alphabetical order. The names are listed in alphabetical order.

*(If you are providing information about the activities of your company)*

## SUGGESTED AGRICULTURAL SCIENCE PRE-LAW CURRICULUM--Continued

## Group III

Economics 108, 109, and Finance 250 (8 hours required)	9	
Political Science 150	3	
Psychology 100	4	16

## Group IV Courses - two of the following

Zoology 104, or Botany 100, or Entomology 101		7 or 8
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## Group V Courses

Chemistry 101 or 111, and 132		
Geology 101 or 105, and 140		
Math. Electives		
Physics 101 and 102		16

D. Suggested Open Electives

Speech 101	3	
Accountancy 201	3	6

Total hours in three years. . . . .	96
Law courses to complete requirement for degree. . . . .	30
Total Required for Degree in Agriculture. . . . .	126

NOTE: The 96 hours would be completed during the six semesters in agriculture. Completion of at least 30 hours in law school during the fourth year would qualify the student for graduation from the College of Agriculture. To remain in and graduate from this curriculum, each student must maintain an over-all average of at least 3.5, including courses taken in the College of Law and counted toward the completion of this degree.



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**DAIRY TECHNOLOGY CURRICULUM**  
(for the degree of Bachelor of Science in Dairy Technology)

The following program is designed for students interested in the business and technological aspects of dairy manufacturing or in research or teaching in the field of dairy technology. A minimum of 126 hours of credit, excluding P.E., is required for graduation. All students specializing in dairy technology are expected to take an inspection trip in either the junior or the senior year. This trip costs about \$35.

<u>First Year</u>			
<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Agr. 100--Lect. for Freshmen	0	Chem. 105--Inorg. Chem. and Qualitative Analysis	5
Chem. 101 or 102--Gen. Chem.	5-3	Rhet. 102--Rhetoric and Comp.	3
D.S. 100--Intro. to Dairy Prod.	3	Speech 101--Prin. of Effective Speaking	3
Math. 111 or 112 <sup>1/</sup> --Col. Algebra	5-3	Physical Education	(1)
Rhet. 101--Rhetoric and Comp.	3	Military (men)	1
Physical Education	(1)	Electives	3
Military (men)	1		
<b>Total</b>	<b>14-18</b>	<b>Total</b>	<b>16</b>
<u>Second Year</u>			
Chem. 133--Elem. Org. Chem.	5	Bact. 104--Elem. Bact., or Da.Sci. 150 and 151--Gen. Da. Bact.	5
D. T. 101--Intro. to Da. Tech.	3	D. T. 102--Quality Evaluation of Dairy Products	3
Econ. 108--Elements of Economics	3	Physical Education	(1)
Physical Education	(1)	Military (men)	1
Military (men)	1	Electives (Group I or II)	6
Elective (Group I or II)	3		
<b>Total</b>	<b>16</b>	<b>Total</b>	<b>16</b>
<u>Third Year</u>			
D.T. 211--Bacteriological Control of Dairy Plants	4	Accy. 201 <sup>2/</sup> --Fund. of Account.	3
Rhet. 151--Bus. Letter Writing	3	D.T. 213--Tech. Control of Dairy Products	3
Electives (Groups I and II)	9	D.T. 310--Dairy Prod. Proc.	4
		Electives (Groups I and II)	6
<b>Total</b>	<b>16</b>	<b>Total</b>	<b>16</b>
<u>Fourth Year</u>			
D.T. 311--Dairy Prod. Proc.	4	Electives	17
Electives	12		
<b>Total</b>	<b>16</b>	<b>Total</b>	<b>17</b>

<sup>1/</sup> Students who pass the mathematics placement test are not required to take a mathematics course; all others must take either Math. 111 or Math. 112.

<sup>2/</sup> Students interested in business management should take Accy. 101 and 105.

93-2676 542-2525 7011

For the purpose of labeling of labels in word list (1)

The following program is designed for students interested in the field of computer science and engineering. It includes a variety of courses that cover the fundamentals of computer science, as well as more advanced topics in artificial intelligence, robotics, and computer graphics. The program is designed to be completed in four years, and students will receive a Bachelor of Science degree upon completion.

Year	Amount	Year	Amount
1900	100.00	1900	100.00
1901	100.00	1901	100.00
1902	100.00	1902	100.00
1903	100.00	1903	100.00
1904	100.00	1904	100.00
1905	100.00	1905	100.00
1906	100.00	1906	100.00
1907	100.00	1907	100.00
1908	100.00	1908	100.00
1909	100.00	1909	100.00
1910	100.00	1910	100.00
1911	100.00	1911	100.00
1912	100.00	1912	100.00
1913	100.00	1913	100.00
1914	100.00	1914	100.00
1915	100.00	1915	100.00
1916	100.00	1916	100.00
1917	100.00	1917	100.00
1918	100.00	1918	100.00
1919	100.00	1919	100.00
1920	100.00	1920	100.00
1921	100.00	1921	100.00
1922	100.00	1922	100.00
1923	100.00	1923	100.00
1924	100.00	1924	100.00
1925	100.00	1925	100.00
1926	100.00	1926	100.00
1927	100.00	1927	100.00
1928	100.00	1928	100.00
1929	100.00	1929	100.00
1930	100.00	1930	100.00
1931	100.00	1931	100.00
1932	100.00	1932	100.00
1933	100.00	1933	100.00
1934	100.00	1934	100.00
1935	100.00	1935	100.00
1936	100.00	1936	100.00
1937	100.00	1937	100.00
1938	100.00	1938	100.00
1939	100.00	1939	100.00
1940	100.00	1940	100.00
1941	100.00	1941	100.00
1942	100.00	1942	100.00
1943	100.00	1943	100.00
1944	100.00	1944	100.00
1945	100.00	1945	100.00
1946	100.00	1946	100.00
1947	100.00	1947	100.00
1948	100.00	1948	100.00
1949	100.00	1949	100.00
1950	100.00	1950	100.00
1951	100.00	1951	100.00
1952	100.00	1952	100.00
1953	100.00	1953	100.00
1954	100.00	1954	100.00
1955	100.00	1955	100.00
1956	100.00	1956	100.00
1957	100.00	1957	100.00
1958	100.00	1958	100.00
1959	100.00	1959	100.00
1960	100.00	1960	100.00
1961	100.00	1961	100.00
1962	100.00	1962	100.00
1963	100.00	1963	100.00
1964	100.00	1964	100.00
1965	100.00	1965	100.00
1966	100.00	1966	100.00
1967	100.00	1967	100.00
1968	100.00	1968	100.00
1969	100.00	1969	100.00
1970	100.00	1970	100.00
1971	100.00	1971	100.00
1972	100.00	1972	100.00
1973	100.00	1973	100.00
1974	100.00	1974	100.00
1975	100.00	1975	100.00
1976	100.00	1976	100.00
1977	100.00	1977	100.00
1978	100.00	1978	100.00
1979	100.00	1979	100.00
1980	100.00	1980	100.00
1981	100.00	1981	100.00
1982	100.00	1982	100.00
1983	100.00	1983	100.00
1984	100.00	1984	100.00
1985	100.00	1985	100.00
1986	100.00	1986	100.00
1987	100.00	1987	100.00
1988	100.00	1988	100.00
1989	100.00	1989	100.00
1990	100.00	1990	100.00
1991	100.00	1991	100.00
1992	100.00	1992	100.00
1993	100.00	1993	100.00
1994	100.00	1994	100.00
1995	100.00	1995	100.00
1996	100.00	1996	100.00
1997	100.00	1997	100.00
1998	100.00	1998	100.00
1999	100.00	1999	100.00
2000	100.00	2000	100.00

1. The following information was obtained from the records of the Federal Bureau of Investigation, Bureau of Prisons, and the United States Department of Justice, Office of the Inspector General, regarding the activities of the following individuals:



## DAIRY TECHNOLOGY CURRICULUM--Continued

Group I electives: A minimum of 15 hours, at least 6 of which must be in courses above the 100 level, to be selected from science (bacteriology, chemistry, mathematics, and physics) or commerce (accountancy, business law, economics<sup>1/</sup>, finance<sup>1/</sup>, management, and marketing).

Group II electives: A minimum of nine hours in humanities and social sciences, to be selected from anthropology, art, economics<sup>1/</sup>, finance<sup>1/</sup>, foreign language, geography, history, landscape architecture, literature, music, philosophy, political science, psychology, religion, sociology, or speech.

Electives in the third and fourth years, chosen with the assistance of an adviser, can provide a background of general business training, a special knowledge of some business field, or a basis for graduate work in preparation for research.

<sup>1/</sup> Students who select economics or finance courses in fulfillment of Group I or II may not count the same course in both groups.

1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

1. The first of these is the fact that the system is not a simple one. It is a complex system, and the results of the analysis are not always clear. The system is not a simple one, and the results of the analysis are not always clear.

During the 1940s, the U.S. Navy was the largest employer of African American women in the United States. The Navy's Naval Air Station in Alameda, California, was the largest employer of African American women in the United States. The Navy's Naval Air Station in Alameda, California, was the largest employer of African American women in the United States.

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED  
DATE 01-21-2009 BY 60322 UCBAW/SJS

NAME \_\_\_\_\_  
DATE \_\_\_\_\_

126 hours, including military and excluding physical education, are required for the degree as outlined above. A minimum average of 3.0 is required for graduation. Effective Aug. 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at the U. of I. and a combined average of 3.0 for transfer and U. of I. work.

2/ Students who select economics or finance courses in fulfillment of Group I or II may not count the same course in both groups.



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1. Mr. J. H. Smith, President, Board of Directors, First National Bank, St. Louis, Mo.  
 2. Mr. J. H. Smith, President, Board of Directors, First National Bank, St. Louis, Mo.  
 3. Mr. J. H. Smith, President, Board of Directors, First National Bank, St. Louis, Mo.  
 4. Mr. J. H. Smith, President, Board of Directors, First National Bank, St. Louis, Mo.  
 5. Mr. J. H. Smith, President, Board of Directors, First National Bank, St. Louis, Mo.  
 6. Mr. J. H. Smith, President, Board of Directors, First National Bank, St. Louis, Mo.  
 7. Mr. J. H. Smith, President, Board of Directors, First National Bank, St. Louis, Mo.  
 8. Mr. J. H. Smith, President, Board of Directors, First National Bank, St. Louis, Mo.  
 9. Mr. J. H. Smith, President, Board of Directors, First National Bank, St. Louis, Mo.  
 10. Mr. J. H. Smith, President, Board of Directors, First National Bank, St. Louis, Mo.

1994

1990

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*[Faint, illegible text]*

1. The above information was obtained from the files of the Department of the Interior, Bureau of Land Management, and is being furnished to you for your information.

CURRICULUM IN FLORICULTURE AND ORNAMENTAL HORTICULTURE  
(For the Degree of Bachelor of Science in Floriculture and Ornamental Horticulture)

The curriculum in Floriculture and Ornamental Horticulture is intended primarily for students preparing to produce and/or market flower crops, nursery products, and other ornamentals; engage in floricultural service activities; or do teaching and research in this field.

More specifically, students may seek training in the respective field of specialization noted below or in other closely related areas:

1. Production of flower crops and other ornamentals, both in-doors and out.
2. Greenhouse management and operation.
3. Nursery and turf management and production.
4. Flower shop management and floral designing.
5. Retail and wholesale marketing of floricultural specialties.
6. Floricultural and ornamental horticultural service, including extension work, industrial consulting, journalism, municipal park employment, quarantine service employment, sales, etc.
7. Preparation for advanced studies leading to academic positions in teaching, research, and extension; executive, supervisory, or research positions with commercial firms; and various other floricultural and ornamental horticultural service activities.

A minimum of 130 hours of credit is required for graduation, exclusive of physical education (4 hours). Requirements have been kept at a minimum to allow the individual student to progress in the field of his particular interest under the close guidance of his adviser. All students in this curriculum will follow a common first-year program.

More complete information and sample programs for various areas of specialization may be obtained at 100 Floriculture Building, Urbana, Illinois.

Students in this curriculum are required to make at least one inspection trip to commercial establishments before graduation. The trip costs about \$35.00. Students are also advised and encouraged to acquire practical experience through employment in florist or nursery establishments during vacation periods.

Summary of Requirements

	Hours
General University Requirements. . . . .	10
Freshman Year (Excluding General University Requirements and Electives). .	13-17
Group I Requirements (Horticulture) <sup>1/</sup> . . . . .	27
Group II Requirements (Humanities and Social Sciences) . . . . .	15
Group III Requirements (Biological and Physical Sciences) <sup>2/</sup> . . . . .	16
Group IV Requirements (Supporting Courses) . . . . .	20
Electives. . . . .	25-29
Total Hours	130

<sup>1/</sup> 3 additional hours of horticulture included in freshman year.

<sup>2/</sup> 10-14 additional hours of biological and physical sciences included in freshman year.





COMMON FIRST-YEAR PROGRAM

<u>First Semester</u>	<u>Hours</u>
Agr. 100 - Lectures for Freshmen in Agriculture. . . . .	0
Bot. 100 - General Botany. . . . .	4
Hort. 122 - Greenhouse Management. . . . .	3
Math. 111, Algebra; Math. 112, College Algebra, or Math. 104, Elements of Algebra and Trigonometry <sup>3/</sup> . . . . .	3 or 5
Rhet. 101 - Freshman Rhetoric and Composition. . . . .	3
Mil. Sci. (Men). . . . .	1
P. E.. . . . .	(1)
Elective . . . . .	0 - 3
	15 - 18

<u>Second Semester</u>	
Chem. 101, 102, or 111 - General Chemistry . . . . .	3 or 5
Rhet. 102 - Freshman Rhetoric and Composition. . . . .	3
Mil. Sci. (Men) . . . . .	1
P. E.. . . . .	(1)
Electives. . . . .	6 - 8
	14 - 18

Group I REQUIREMENTS - Horticulture: A minimum of 27 hours will be selected from this list:

Hort. 221 - Plant Propagation (I). . . . .	3
Hort. 223 - Floricultural Crops Production (I) <sup>4/</sup> . . . . .	3
Hort. 224 - Floricultural Crops Production (II) <sup>4/</sup> . . . . .	3
Hort. 225 - Ornamental Gardening (I) . . . . .	3
Hort. 226 - Bedding and Foliage Plants (II) <sup>4/</sup> . . . . .	3
Hort. 230 - Garden Flowers (II) <sup>4/</sup> . . . . .	3
Hort. 231 - Floral Decorations (I) <sup>4/</sup> . . . . .	3
Hort. 232 - Advanced Floral Decorations and Flower Shop Management (II) <sup>4/</sup> . . . . .	3
Hort. 234 - Nursery Management (II) <sup>4/</sup> . . . . .	3
Hort. 236 - Turf Management (II) <sup>4/</sup> . . . . .	3
Hort. 242 - Vegetable Crops Production (II). . . . .	3
Hort. 262 - Tree and Small Fruit Culture (I) . . . . .	3
Hort. 321 - Floricultural Physiology (I) . . . . .	3
Hort. 322 - Plant Nutrition (II) . . . . .	3

<sup>3/</sup> Students in this curriculum are required to complete either Math. 111, Algebra, 5 hours; Math. 112, College Algebra; 3 hours, or Math. 104, Elements of Algebra and Trigonometry, 3 hours, or pass the placement examination in mathematics. Math. 104 does not serve as a prerequisite for more advanced courses in mathematics. Students who enter this curriculum with acceptable equivalent college credit in algebra are not required to take the placement examination or additional mathematics.

<sup>4/</sup> Offered in alternate years only.



Group II REQUIREMENTS - Humanities and Social Sciences: A minimum of 15 hours will be selected from these subject-matter areas, including Economics 108 and Speech 101:

Anthropology, Art, Economics, Finance, Foreign Languages, Geography, History, Literature, Music, Philosophy, Political Science, Psychology, Religion, Sociology, and Speech.

Students contemplating continuation of their studies for an advanced degree are encouraged to elect one of the foreign languages, preferably French or German.

Group III REQUIREMENTS - Biological and Physical Sciences: A minimum of 16 hours will be selected from this group, including at least one course in chemistry:

A. Biological Sciences: A minimum of 6 hours, representing at least two different departments.

	<u>Hours</u>
Bact. 104 - Elementary Bacteriology (I,II) . . . . .	5
Bot. 130 - Plant Physiology (I). . . . .	5
Bot. 160 - Introductory Plant Taxonomy (II). . . . .	3
Entom. 101 - Agricultural Entomology (I,II). . . . .	3
Hort. 110 - Plant and Animal Genetics (I,II) . . . . .	3
Plant. Path. 317 - Plant Pathology (I) . . . . .	4

B. Physical Sciences: A minimum of 6 hours, representing at least two different departments, including at least one course in chemistry.

Chem. 105 - Inorganic Chemistry and Qualitative Analysis (I,II). . . . .	5
Chem. 122 - Elementary Quantitative Analysis (I,II). . . . .	5
Chem. 132 - Elementary Organic Chemistry (I,II). . . . .	3 <sup>5/</sup>
Chem. 133 - Elementary Organic Chemistry (I,II). . . . .	5
Geol. 105 - Agricultural Geology (I,II). . . . .	3
Math. 114 - Plane Trigonometry (I,II). . . . .	2
Physics 101 - General Physics (I). . . . .	5
Physics 102 - General Physics (II) . . . . .	5

<sup>5/</sup> Chemistry 132 is a terminal course and will not serve as the organic prerequisite for more advanced courses in chemistry, such as biochemistry and others.





Group IV REQUIREMENTS - Supporting Courses: A minimum of 20 hours will be selected from this group of courses:

	<u>Hours</u>
Accy. 101 - Principles of Accounting (I,II). . . . .	3
Accy. 105 - Accounting Procedure (I,II). . . . .	3
Accy. 106 - Elementary Cost Accounting (I,II). . . . .	3
Accy. 108 - Intermediate Accounting (I,II). . . . .	3
Accy. 201 - Fundamentals of Accounting (I,II). . . . .	3
Agr. Ec. 230 - Marketing of Agricultural Products (I,II). . . . .	3
Agron. 201 - Soils (I,II). . . . .	5
Agron. 306 - Fertilizers and Their Soil Reaction (I). . . . .	3
Agron. 308 - Plant Composition and Chemurgy (II). . . . .	3
Agron. 326 - Weeds and Their Control (I). . . . .	3
Bot. 303 - Comparative Morphology: Vascular Plants (II). . . . .	3
Bot. 322 - Genetics (I). . . . .	4
Bot. 340 - Histological Technic (II). . . . .	3 - 5
Bot. 345 - Plant Anatomy (I). . . . .	3 - 5
Bot. 381 - Plant Ecology (I). . . . .	3
Bus. Law 100 - Basic Principles of Business Law (I,II). . . . .	3
Chem. 350 - General Biochemistry (I,II). . . . .	3
Chem. 354 - Introduction to Biochemistry (I). . . . .	5
Chem. 355 - Biochemistry Laboratory (I,II). . . . .	3
Forestry 262 - Control of Forest Pests and Hazards (I). . . . .	3
Hort. 382 - Improvement of Horticultural Crops by Breeding (II). . . . .	3
L. A. 164 - Appreciation of Landscape Architecture (II). . . . .	3
L. A. 251 - Trees and Shrubs (I). . . . .	3
L. A. 252 - Trees and Shrubs (II). . . . .	3
Mktg. 101 - Principles of Marketing (I,II). . . . .	3
Mktg. 211 - Principles of Retailing (I,II). . . . .	3
Mktg. 212 - Retail Sales Promotion (I,II). . . . .	2
Mktg. 271 - Salesmanship (I,II). . . . .	2
Mktg. 281 - Introduction to Advertising (I,II). . . . .	3
Mktg. 282 - Advertising Procedures (I,II). . . . .	3
Mktg. 288 - Sales Writing (I,II). . . . .	2
Mktg. 315 - Retail Buying (I,II). . . . .	2
Mktg. 345 - Credits and Collections (I,II). . . . .	3
Plant Path. 202 - Forest Pathology (II). . . . .	3
Rhet. 151 - Business Letter Writing (I,II). . . . .	3
Rhet. 246 - Modern English Grammar (I,II). . . . .	3

100 - *Journal of American Studies* (1967)  
 101 - *Journal of American Studies* (1968)  
 102 - *Journal of American Studies* (1969)  
 103 - *Journal of American Studies* (1970)  
 104 - *Journal of American Studies* (1971)  
 105 - *Journal of American Studies* (1972)  
 106 - *Journal of American Studies* (1973)  
 107 - *Journal of American Studies* (1974)  
 108 - *Journal of American Studies* (1975)  
 109 - *Journal of American Studies* (1976)  
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 111 - *Journal of American Studies* (1978)  
 112 - *Journal of American Studies* (1979)  
 113 - *Journal of American Studies* (1980)  
 114 - *Journal of American Studies* (1981)  
 115 - *Journal of American Studies* (1982)  
 116 - *Journal of American Studies* (1983)  
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 142 - *Journal of American Studies* (2009)  
 143 - *Journal of American Studies* (2010)  
 144 - *Journal of American Studies* (2011)  
 145 - *Journal of American Studies* (2012)  
 146 - *Journal of American Studies* (2013)  
 147 - *Journal of American Studies* (2014)  
 148 - *Journal of American Studies* (2015)  
 149 - *Journal of American Studies* (2016)  
 150 - *Journal of American Studies* (2017)



CURRICULUM IN FLORICULTURE AND ORNAMENTAL HORTICULTURE  
(for degree of B. S. in Floriculture and Ornamental Horticulture)

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_

DATE \_\_\_\_\_

PREScribed COURSES	CREDIT	GRADE	Group III: Biological and Physical Sciences.			
Agric. 100	0		Minimum of 16 hours	CREDIT	GRADE	
Botany 100	4		Biological Sciences: A minimum of 6 hours from at least two departments: Bact. 104, Bot. 130, 160, Entom. 101, Hort. 110, Plant Path. 317			
Chem. 101, 102 or 111	5-3					
Hort. 122	3					
Math. Placement Test or Math. 111, 112, or 104	3-5		Physical Sciences: A minimum of 6 hours from at least two departments including one or more courses in chem. Chem. 105, 122, 132, 133; Geol. 105; Math. 114; Physics 101, 102.			
Rhet. 101	3					
Rhet. 102	3					
Mil.-Mil.	1-1					
Mil.-Mil.	1-1		Group IV: A minimum of 20 hours from: Accy. 101, 105, 106, 108, or 201; Agr. Ec. 230; Agron. 201, 306, 308, 326; Bot. 303, 322, 340, 345, 381; Bus. Law 100; Chem. 350 and 355, or 354; For. 262; Hort. 382; L.A. 164, 251, 252, Mktg. 101, 211, 212, 271, 281, 282, 288, 315, 345; Plant Path. 202; Rhet. 151, 246.			
P.E.-P.E.	(1-1)					
P.E.-P.E.	(1-1)					
Group I: Horticulture						
A minimum of 27 hours from:						
Hort. 221, 223, 224, 225, 226, 230, 231, 232, 234, 236, 242, 262, 321, 322						
Group II: Humanities and Social Sciences						
A minimum of 15 hours from: anthro., art, econ., finance, for. lang., geog., hist., lit., music, phil., pol. sci., psych., religion, soc., and speech.						
MUST INCLUDE:			OPEN ELECTIVES			
Econ. 108						TOTAL HOURS
Speech 101						

130 hours, including military and excluding P.E., are required for the degree as outlined above. A minimum average of 3.0 is required for graduation. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at U. of I. and combined average of 3.0 for transfer and U. of I. work.





**FOOD TECHNOLOGY CURRICULUM**  
(for the degree, Bachelor of Science in Food Technology)

This program is designed for students who wish to prepare for employment as food production, quality control, research, or technical sales workers in governmental agencies, educational institutions, and such food-processing industries as canning, freezing, fermenting, milling and baking, vegetable oil processing, and confection manufacturing. A total of 130 hours of credit is required for graduation, exclusive of physical education and the first two years of military training. Students are strongly urged to engage in at least one summer of employment in selected food-processing industries and are required to go on a senior inspection trip of three days' duration. This trip costs about \$35.

First Year

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Agric. 100--Lect. for Freshmen	0	Botany 100--General Botany	4
Chem. 101 or 102--Gen. Chem.	5-3	Chem. 105--Inorganic Chemistry	
D.G.S. 111--Verbal Communication	4	and Qualitative Analysis	5
Math. 111--Algebra, or		D.G.S. 112--Verbal Communication	4
Math. 112--College Algebra <sup>1/</sup>	5-3	Math. 114--Plane Trigonometry <sup>1/</sup>	2
Physical Education	(1)	Physical Education	(1)
Military (men)	(1)	Military (men)	(1)
Electives	2-6		
<b>Total</b>	<b>16-18</b>	<b>Total</b>	<b>17</b>

Second Year

Chem. 122--Elem. Quan. Analysis	5	Chem. 133--Elem. Org. Chem.	5
Math. 122--Analytic Geometry <sup>1/</sup>	4	Math. 132--Calculus	5
Physics 101--General Physics		Physics 102--General Physics	
(Mechanics, Heat, and Sound)	5	(Light, Elec., and Magn.)	5
Physical Education	(1)	Physical Education	(1)
Military (men)	(1)	Military (men)	(1)
Electives	0-3	Electives	0-2
<b>Total</b>	<b>16-19</b>	<b>Total</b>	<b>17-19</b>

Third Year

Bact. 104--Elem. Bact.	5	Bact. 308--Food and Industrial	
Chem. 340--Elem. Phys. Chem. <sup>2/</sup>	3	Microbiology	5
Chem. 341--Elem. Phys. Chem. Lab. <sup>2/</sup>	1	Chem. 249--Chemistry of Colloids <sup>2/</sup>	3
F.T. 201--Elem. of Food Tech.	3	F.T. 202--Elements of Food Tech.	3
F.T. 260--Raw Materials for Proc.	4	Electives	6
Electives	0-3		
<b>Total</b>	<b>16-19</b>	<b>Total</b>	<b>17</b>

<sup>1/</sup> Students who pass the algebra portion of the mathematics placement test are exempt from the algebra requirement; those who pass both the algebra and trigonometry portions of this test may begin their college mathematics with analytic geometry.

<sup>2/</sup> Students adequately qualified may substitute Chem. 342 and 344 for Chem. 249 and 340-341.



FOOD SUBSIDIES (continued)  
(from the report, Bureau of Census, 1964)

This report is divided into two parts. The first part contains a list of food commodities which are eligible for food subsidies, and the second part contains a list of food commodities which are not eligible for food subsidies. The list of food commodities which are eligible for food subsidies is based on the list of food commodities which are eligible for food subsidies in the United States. The list of food commodities which are not eligible for food subsidies is based on the list of food commodities which are not eligible for food subsidies in the United States. The list of food commodities which are eligible for food subsidies is based on the list of food commodities which are eligible for food subsidies in the United States. The list of food commodities which are not eligible for food subsidies is based on the list of food commodities which are not eligible for food subsidies in the United States.

FOOD SUBSIDIES

FOOD SUBSIDIES	FOOD SUBSIDIES	FOOD SUBSIDIES	FOOD SUBSIDIES
1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26	27	28
29	30	31	32
33	34	35	36
37	38	39	40
41	42	43	44
45	46	47	48
49	50	51	52
53	54	55	56
57	58	59	60
61	62	63	64
65	66	67	68
69	70	71	72
73	74	75	76
77	78	79	80
81	82	83	84
85	86	87	88
89	90	91	92
93	94	95	96
97	98	99	100

FOOD SUBSIDIES

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26	27	28
29	30	31	32
33	34	35	36
37	38	39	40
41	42	43	44
45	46	47	48
49	50	51	52
53	54	55	56
57	58	59	60
61	62	63	64
65	66	67	68
69	70	71	72
73	74	75	76
77	78	79	80
81	82	83	84
85	86	87	88
89	90	91	92
93	94	95	96
97	98	99	100

FOOD SUBSIDIES

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26	27	28
29	30	31	32
33	34	35	36
37	38	39	40
41	42	43	44
45	46	47	48
49	50	51	52
53	54	55	56
57	58	59	60
61	62	63	64
65	66	67	68
69	70	71	72
73	74	75	76
77	78	79	80
81	82	83	84
85	86	87	88
89	90	91	92
93	94	95	96
97	98	99	100

The following table shows the number of food commodities which are eligible for food subsidies in the United States. The table is divided into two parts. The first part shows the number of food commodities which are eligible for food subsidies in the United States. The second part shows the number of food commodities which are not eligible for food subsidies in the United States. The table is based on the list of food commodities which are eligible for food subsidies in the United States. The table is based on the list of food commodities which are not eligible for food subsidies in the United States.

Fourth Year

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Chem. 354--Introd. to Biochem. or Chem. 350 and 355--General Biochemistry	5-6	Chem. 329--Food Analysis	5
F. T. 301--Food Processing	4	F. T. 206--Inspection Trip	0
F. T. 363--Introd. to Process Engr.	3	F. T. 302--Food Processing	4
Electives	3-4	F. T. 332--Principles of Sanitation in the Processing and Handling of Foods	2
Total	<u>16</u>	Electives	<u>5</u>
		Total	<u>16</u>

Humanities and Social Science Electives

A minimum of 15 hours must be selected from courses in anthropology, art, economics, finance, foreign language, geography, history, landscape architecture, literature, music, philosophy, political science, psychology, religion, sociology, or speech. Social science courses offered by the Division of General Studies may be used to satisfy this requirement. Students contemplating continuation of their studies for an advanced degree are advised to elect one of the foreign languages.





**CURRICULUM IN FOOD TECHNOLOGY**  
(for the Degree, Bachelor of Science in Food Technology)

64.

**COLLEGE OF AGRICULTURE**  
Office of Associate Dean

NAME \_\_\_\_\_  
DATE \_\_\_\_\_

PREScribed COURSES:	HOURS	GRADE	HUMANITIES AND SOCIAL SCIENCES--	
Agric. 100	0		A minimum of 15 semester hours from: anthro., art, econ, fin., for. lang., geog., hist., land. arch., lit., music, phil., pol. sci., psych., religion, soc., and speech	<div>Earned:</div> <div>To be earned:</div>
Bact. 104	5			
Bact. 308	5			
Botany 100	4			
Chem. 101 or 102	5-3			
Chem. 105	5			
Chem. 122	5			
Chem. 133	5			
Chem. 249 <sup>1</sup> / <sub>1</sub>	3			
Chem. 329	5			
Chem. 340-341 <sup>1</sup> / <sub>1</sub>	3-1			
Chem. 354 or	5			
Chem. 350 and 355	6			
D.G.S. 111 <sup>2</sup> / <sub>2</sub>	4			
D.G.S. 112 <sup>2</sup> / <sub>2</sub>	4			
F. T. 201	3		OPEN ELECTIVES	<div>TOTAL HOURS</div>
F. T. 202	3			
F. T. 206	0			
F. T. 260	4			
F. T. 301	4			
F. T. 302	4			
F. T. 332	2			
F. T. 363	3			
Math. Placement Test or				
Math. 111 or 112	5-3			
Math. 114	2			
Math. 122	4			
Math. 132	5			
Physics 101	5			
Physics 102	5			
Mil.-Mil.	(1-1)			
Mil.-Mil.	(1-1)			
P.E.-P.E.	(1-1)			
P.E.-P.E.	(1-1)			

1/ Students adequately qualified may substitute Chem. 342 and 344, Physical Chemistry for Chem. 249 and 340-341.

2/ Rhetoric 101, 102, and Speech 101 may be substituted for D.G.S. 111 and 112.

130 hours, exclusive of regular military and P.E. are required for the degree. A minimum average of 3.0 is required for graduation. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at the U. of I. and a combined average of 3.0 for transfer and U. of I. work.



**FOREST PRODUCTION CURRICULUM**  
(for the degree of B.S. in Forestry)

The curriculum in forest production prepares students for various activities in the establishment, protection, management, and utilization of timber crops and forested lands. Graduates are qualified for employment by public agencies or in private industry. A summer camp of eight weeks is required for all students. This should come between the second and third years. Most of the instruction is given at Camp Rabideau, Blackduck, Minnesota.

First Year

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Agric. 100--Lect. for Freshmen	0	Chem. 101 or 102--General Chemistry	5-3
Botany 100--General Botany	4	G.E. 101--Engineering Drawing	3
Forestry 101--General Forestry	3	Math. 114--Plane Trigonometry <sup>1/</sup>	2
Math. 111 or 112--Algebra <sup>1/</sup>	5-3	Rhet. 102--Rhetoric and Composition	3
Rhet. 101--Rhetoric and Composition	(3)	Speech 101--Principles of Effective	
Physical Education	(1)	Speaking	3
Military (men)	1	Physical Education	(1)
		Military (men)	1
Total	<u>15-17</u>	Total	<u>16-18</u>

Second Year

Forestry 111--Dendrology I	2	Forestry 112--Dendrology II	2
Civil Eng. 215--General Surveying	3	Chem. 132--Elementary Organic	
Geol. 105--Agricultural Geology	3	Chemistry	3
Physics 101--General Physics		Physics 102--General Physics	
(Mechanics, Heat, and Sound)	5	(Light, Electricity, and Magnetism)	5
Econ. 108--Elements of Economics	3	Zoology 104--Elementary Zoology	4
Physical Education	(1)	Physical Education	(1)
Military (men)	1	Military (men)	1
		Elective	0-3
Total	<u>18</u>	Total	<u>16-19</u>

Summer Camp

Eight Weeks in Summer Following Sophomore Year

<u>Course</u>	<u>Subject</u>	<u>Hours</u>
Forestry 211--Introduction to Silvics and Silviculture		3
Forestry 221--Forest Mensuration		3
Forestry 231--Introduction to Wood Utilization		2
Total		<u>8</u>

<sup>1/</sup> Students who pass the algebra portion of the mathematics placement test are exempt from the algebra requirement; those who pass both the algebra and trigonometry portion of this test are exempt from both subjects. Students who are exempt from mathematics should choose other courses from the list of recommended electives.





Third Year

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Forestry 212--Foundations of Silviculture	4	Forestry 214--Seeding and Planting	2
Forestry 222--Advanced Forest Mensuration	3	Forestry 232--Logging and Milling	3
Botany 130--Plant Physiology	5	Forestry 233--Forest Products and Industries	3
Forestry 262--Control of Forest Pests and Hazards	3	Forestry 261--Forest Fire Control and Use	2
Humanities or Social Sciences <sup>1/</sup>	3	Forestry 271--Wood Anatomy and Identification	4
Total	18	Humanities or Social Sciences <sup>1/</sup>	3
		Total	17

Fourth Year

<u>First Semester<sup>2/</sup></u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Forestry 213--Practice of Silviculture	3	Forestry 252--Forest Valuation and Finance	3
Agron. 203--Forest Soils	5	Plant Path. 202--Forest Pathology	3
Forestry 241--Foundations of American Forest Management	3	Humanities or Social Sciences <sup>1/</sup>	6
Forestry 251--Forest Economics	3	Electives	6
Zoology 342--Wildlife Management and Conservation	3		
Total	17	Total	18

Recommended Electives

Agron. 110--Plant and Animal Genetics	3
Botany 160--Introductory Plant Taxonomy	3
Forestry 272--Physical and Mechanical Properties of Wood	3
Forestry 229--Forest Aerial Photo Interpretation	3
C.E. 250--Hydrology	3
Rhet. 151--Business Letter Writing	3
Bus. Law 261--Summary of Business Law	3
Geog. 111--Meteorology	3

A minimum of 140 hours of credit, excluding Physical Education and including 8 credit hours earned in Summer Camp, are required for graduation.

<sup>1/</sup> Humanities and Social Sciences: A minimum of 12 hours in addition to Speech 101 and Econ. 108 are required from anthro., art, econ., fin., for.lang., geog., hist., land. arch., lit., music, philos., pol. sci., psych., religion, sociol., and speech.

<sup>2/</sup> The work of this semester will be arranged so that several extended field trips may be taken in the first half of the semester.

1998

1880



UNIVERSITY OF ILLINOIS  
CURRICULUM IN FOREST PRODUCTION  
(for degree of B.S. in Forestry)

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_

DATE \_\_\_\_\_

PRESCRIBED COURSES	CREDIT	GRADE	PRESCRIBED FORESTRY	CREDIT	GRADE
Agric. 100	0		For. 101	3	
			For. 111	2	
Agron. 203	5		For. 112	2	
Botany 100	4		For. 211*	3	
Botany 130	5		For. 212	4	
			For. 213	3	
			For. 214	2	
Chem. 101 or 102	5-3		For. 221*	3	
Chem. 132	3				
			For. 222	3	
Civ. Eng. 215	3		For. 231*	2	
			For. 232	3	
Econ. 108	3		For. 233	3	
			For. 241	3	
Gen. Eng. 101	3				
			For. 251	3	
Geology 105	3		For. 252	3	
			For. 261	2	
Math. Placement Test or			For. 262	3	
Math. 111 or 112	5-3		For. 271	4	
Math. 114	2				
Physics 101	5		HUMANITIES AND SOCIAL SCIENCES--A minimum of 12 hours from: anthro., art, econ., finance, for. lang., geog., hist., land. arch., lit., music, philos., pol. sci., psych., religion, sociol., or speech		
Physics 102	5				
Plant Path. 202	3				Earned:
Zoology 104	4				To be
Zoology 342	3				
Rhet. 101	3				
Rhet. 102	3				
			OPEN ELECTIVES:		
Speech 101	3				TOTAL HOURS
Mil.-Mil.	1-1				
Mil.-Mil.	1-1				
P.E.-P.E.	(1-1)				
P.E.-P.E.	(1-1)				

140 hours of credit, excluding P.E. and including eight credit hours earned in summer camp\*, are required for graduation. A minimum of 3.0 is required for graduation. Effective August 1, 1956, the students who transfer credits must have a minimum average of 3.0 in all courses taken at U. of I. and combined average of 3.0 for transfer and U. of I. work.



**CURRICULUM IN WOOD TECHNOLOGY AND UTILIZATION**  
(for the degree of B.S. in Forestry)

The curriculum in wood technology and utilization prepares students to work with wood as a raw material. These scientists will enter positions which deal with the physical and mechanical properties of wood. They will be concerned with using wood in new and better ways, with the seasoning, manufacturing, purchase, sale, preservative or fire-retardant treatment, gluing, or finishing of wood. A minimum of ten weeks of non-credit summer industrial experience must be served with some wood-conversion or wood-using industry. This experience usually comes between the junior and senior years.

First Year

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Agric. 100--Lect. for Freshmen	0	Chem. 101 or 102--General Chemistry	5-3
Botany 100--General Botany	4	G.E. 101--Engineering Drawing	3
Forestry 101--General Forestry	3	Math. 114--Plane Trigonometry <sup>1/</sup>	2
Math. 111 or 112--Algebra <sup>1/</sup>	5-3	Rhet. 102--Rhetoric and Composition	3
Rhet. 101--Rhetoric and Composition	3	Speech 101--Principles of Effective Speaking	3
Physical Education	(1)	Physical Education	(1)
Military (men)	1	Military (men)	1
<b>Total</b>	<u>15-17</u>	<b>Total</b>	<u>16-18</u>

Second Year

Forestry 111--Dendrology I	2	Forestry 112--Dendrology II	2
Math. 122--Analytic Geometry	4	Econ. 108--Elements of Economics	3
Physics 101--General Physics (Mechanics, Heat, and Sound)	5	Physics 102--General Physics (Light, Electricity, and Magnetism)	5
Chem. 105--Inorganic Chemistry and Qualitative Analysis	5	Chem. 132--Elementary Organic Chemistry	3
Physical Education	(1)	Physical Education	(1)
Military (men)	1	Military (men)	1
<b>Total</b>	<u>18</u>	Elective <sup>2/</sup>	3
		<b>Total</b>	<u>18</u>

Forestry Summer Camp

Eight Weeks in Summer Following Sophomore Year

<u>Course</u>	<u>Subject</u>	<u>Hours</u>
Forestry 211--Introduction to Silvics and Silviculture		3
Forestry 221--Forest Mensuration		3
Forestry 231--Introduction to Wood Utilization		2
<b>Total</b>		<u>8</u>





Third Year

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Forestry 222--Advanced Forest Mensuration	3	Forestry 233--Forest Products and Industries	3
Botany 130--Plant Physiology	5	Forestry 271--Wood Anatomy and Identification	4
T.A.M. 171--Elements of Mechanics	3	Plant Path. 202--Forest Pathology	3
Humanities or Social Sciences <sup>2/</sup>	6	T.A.M. 172--Strength of Materials	3
		Forestry 232--Logging and Milling	3
		Humanities or Social Sciences <sup>2/</sup>	0-3
Total	17	Total	16-19

Summer Industrial Experience: A minimum of 10 weeks' employment preceding the senior year to be served with some wood-conversion or wood-using industry. Employer will be asked to rate student. Student will be required to submit report on his experience.

Fourth Year

Forestry 213--Practice of Silviculture	3	Forestry 234--Wood Seasoning	2
Forestry 241--Foundations of American Forest Management	3	Forestry 252--Forest Valuation and Finance	3
Forestry 251--Forest Economics	3	Forestry 272--Physical and Mechanical Properties of Wood	3
Forestry 275--Seminar in Forest Products	2	Forestry 273--Glues, Plywood and Laminates	4
Electives <sup>2/</sup>	6	Forestry 274--Wood Preservation	3
		Elective <sup>2/</sup>	3
Total	17	Total	18

Suggested Electives

Accy. 201	--Fundamentals of Accounting	3
Chem. 122	--Elementary Quantitative Analysis	5
Math. 161	--Statistics	3
Rhet. 151	--Business Letter Writing	3
Bus. Law 261	--Summary of Business Law	3
Math. 137	--Calculus	3

A minimum of 140 hours of credit, excluding Physical Education and including 8 credit hours earned in Summer Camp, are required for graduation.

<sup>1/</sup> Students who pass the algebra portion of the mathematics placement test are exempt from the algebra requirement; those who pass both the algebra and trigonometry portions of this test are exempt from both subjects. They should take Math. 117 and 127 and will not take Math. 122.

<sup>2/</sup> Humanities and Social Sciences: A minimum of 12 hours in addition to Speech 101 and Econ. 108 are required from anthro., art, econ., fin., for. lang., geog., hist., land. arch., lit., music, philos., pol. sci., psych., religion, sociol., and speech.

Date	Particulars	Debit	Credit
	To Balance b/d	100	100
	By Cash	100	
	To Cash	100	
	By Cash	100	
	To Cash	100	
	By Cash	100	
	To Cash	100	
	By Cash	100	
	To Cash	100	
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	To Cash	100	
	By Cash	100	
	To Cash	100	
	By Cash	100	
	To Cash	100	
	By Cash	100	

Notes: The above is a summary of the transactions for the month of January. The total debit and credit are equal, as they should be. The balance carried forward is £100.00.

Date	Particulars	Debit	Credit
	To Balance b/d	100	100
	By Cash	100	
	To Cash	100	
	By Cash	100	
	To Cash	100	
	By Cash	100	
	To Cash	100	
	By Cash	100	
	To Cash	100	
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	By Cash	100	
	To Cash	100	
	By Cash	100	
	To Cash	100	
	By Cash	100	
	To Cash	100	
	By Cash	100	

Notes: The above is a summary of the transactions for the month of January. The total debit and credit are equal, as they should be. The balance carried forward is £100.00.

A balance of £100.00 is carried forward to the next month.

The above is a summary of the transactions for the month of January. The total debit and credit are equal, as they should be. The balance carried forward is £100.00.



UNIVERSITY OF ILLINOIS  
CURRICULUM IN WOOD TECHNOLOGY AND UTILIZATION  
(for degree of B.S. in Forestry)

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_

DATE \_\_\_\_\_

PRESCRIBED COURSES	CREDIT	GRADE	PRESCRIBED FORESTRY	CREDIT	GRADE
Agric. 100	0		For. 101	3	
Botany 100	4		For. 111	2	
Botany 130	5		For. 112	2	
Chem. 101 or 102	5-3		For. 211*	3	
Chem. 105	5		For. 213	3	
Chem. 132	3		For. 221*	3	
			For. 222	3	
			For. 231*	2	
Econ. 108	3		For. 232	3	
Gen. Eng. 101	3		For. 233	3	
			For. 234	2	
Math. Placement Test or			For. 241	3	
Math. 111 or 112	5-3		For. 251	3	
Math. 114	2				
Math. 122	4		For. 252	3	
			For. 271	4	
			For. 272	3	
Physics 101	5		For. 273	4	
Physics 102	5		For. 274	3	
			For. 275	2	
Plant Path. 202	3		Summer Ind. Exp. Report	0	
T.A.M. 171	3		HUMANITIES AND SOCIAL SCIENCES--A minimum of 12 hours from: anthro., art, econ., finance, for. lang., geog., hist., land. arch., lit., music, philos., pol. sci., psych., religion, sociol., or speech		
T.A.M. 172	3				
Rhet. 101	3				
Rhet. 102	3				
Speech 101	3				Earned:
					To be earned:
Mil.-Mil.	1-1		OPEN ELECTIVES:		
Mil.-Mil.	1-1				
P.E.-P.E.	(1-1)				
P.E.-P.E.	(1-1)				
					TOTAL HOURS

140 hours of credit, excluding P.E., and including eight credit hours earned in summer camp\*, are required for graduation. A minimum of 3.0 is required for graduation. Effective August 1, 1956, the students who transfer credits must have a minimum average of 3.0 in all courses taken at the U. of I. and combined average of 3.0 for transfer and U. of I. work.





**HORTICULTURAL FOOD CROPS CURRICULUM**  
(for the degree of B.S. in Horticultural Food Crops)

This curriculum is designed to prepare students for a wide variety of positions in the horticultural food industry. The number of requirements has been kept at a minimum to give flexibility and allow the student to progress in the field of his particular interest under the guidance of his adviser. A minimum of 132 hours of credit is required for graduation, including military and excluding physical education.

The student may follow either one of two options:

Option 1 -- Production

This option requires 8 hours of chemistry and emphasizes crop production but includes enough on processing to give the student an insight into the interdependence of these phases and enhance his chances for advancement into positions requiring a knowledge of both. Graduates should be qualified for work in crop production or some phases of raw products research in the processing industry. Students interested in the production or handling of fresh fruits or vegetables will find this a suitable core curriculum.

<u>First Semester</u>		<u>First Year</u>		<u>Second Semester</u>	
	<u>Hours</u>				<u>Hours</u>
Agr. 100--Lect. for Freshmen	0	Chem. 132--Elem. Org. Chem.			3
Bot. 100--General Botany	4	D.G.S. 112 <sup>1</sup> --Verbal Com.			4
Chem. 111--General Chemistry	5	Hort. 100--Introd. Hort.			3
D.G.S. 111 <sup>1</sup> --Verbal Com.	4	Math. 104--Elem. of Alg. & Trig.			3
Physical Education	(1)	Physical Education			(1)
Military (men)	1	Military (men)			1
		Electives			2-3
<b>Total</b>	<u>15</u>	<b>Total</b>			<u>17-18</u>
		<u>Second Year</u>			
Bot. 120--Plant Physiology	5	Geol. 105--Agricultural Geology			3
F. T. 260--Raw Materials for Processing	4	Hort. 242--Vegetable Crops Prod.			3
Physics 101--General Physics	5	Physics 102--General Physics			5
Physical Education	(1)	Physical Education			(1)
Military (men)	1	Military (men)			1
<b>Total</b>	<u>16</u>	Electives <sup>2</sup> /			4
		<b>Total</b>			<u>17</u>
		<u>Third Year</u>			
Bact. 104--Elem. Bact.	5	Agron. 201--Soils			5
F. T. 201--Elem. of Food Tech. <sup>3</sup> /	3	Econ. 108--Elem. of Economics			3
Hort. 262--Tree and Small Fruit Culture	3	Entom. 101--Agric. Entomology			3
P. P. 317--Plant Path.	4	Electives <sup>2</sup> /			6
Electives <sup>2</sup> /	3				
<b>Total</b>	<u>18</u>	<b>Total</b>			<u>17</u>
		<u>Fourth Year</u>			
Electives <sup>2</sup> /	18	Electives <sup>2</sup> /			18
<b>Total</b>	<u>18</u>	<b>Total</b>			<u>18</u>

<sup>1</sup>/ Rhet. 101, 102 and Speech 101 may be substituted for D.G.S. 111 and 112.

<sup>2</sup>/ Electives must include at least 12 hours of technical agriculture and 12 hours of humanities and social sciences (see next page).

<sup>3</sup>/ Students in this option will be allowed to enroll in F. T. 201 with the prerequisite of Chem. 132 instead of Chem. 133.





### Option 2 -- Processing

This option requires 18 to 20 hours of chemistry and Food Technology 204 and 301 and trains the student for a position in quality control in the manufacture of horticultural food products. The increased chemistry requirement necessitates a modification in the sequence of required courses.

<u>First Semester</u>		<u>First Year</u>	
	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Agr. 100--Lect. for Freshmen	0	Chem. 105--Inorganic Chemistry and Qualitative Analysis	5
Bot. 100--General Botany	4	D.G.S. 112 <sup>1</sup> --Verbal Commun.	4
Chem. 101 or 102--General Chemistry	5-3	Geol. 105--Agricultural Geology	3
D.G.S. 111 <sup>1</sup> --Verbal Commun.	4	Math. 104--Elem. of Alg. & Trig.	3
Physical Education	(1)	Physical Education	(1)
Military (men)	1	Military (men)	1
Elective <sup>1</sup>	3		
Total	16-18	Total	17
		<u>Second Year</u>	
Chem. 122--Elem. Quant. Analysis	5	Bact. 104--Elem. Bact.	5
Hort. 100--Introd. to Hort.	3	Chem. 133--Elem. Organ. Chem.	5
Physics 101--General Physics (Mechanics, Heat, and Sound)	5	Physics 102--General Physics (Light, Electricity, and Magnetism)	5
Physical Education	(1)	Physical Education	(1)
Military (men)	1	Military (men)	1
Elective <sup>2</sup>	2		
Total	17	Total	17
		<u>Third Year</u>	
Bot. 130--Plant Physiology	5	Agron. 201--Soils	5
Entom. 101--Agric. Entom.	3	Econ. 108--Elem. of Econ.	3
F. T. 201--Elem. of Food Tech.	3	Hort. 242--Veg. Crops Production	3
F. T. 260--Raw Materials for Processing	4	Electives <sup>2</sup>	6
Elective <sup>2</sup>	3		
Total	18	Total	17
		<u>Fourth Year</u>	
F. T. 301--Food Processing	4	F. T. 204--Elem. of Food Engin.	3
Hort. 262--Tree and Small Fruit Culture	3	Electives <sup>2</sup>	13-15
P. P. 317--Plant Pathology	4		
Electives <sup>2</sup>	6		
Total	17	Total	16-18

### Humanities and Social Science Electives

For either option a minimum of 12 hours shall be selected from courses in anthropology, art, economics, finance, foreign language, geography, history, landscape architecture, literature, music, philosophy, political science, psychology, religion, sociology, and speech. Social science courses offered by the Division of General Studies may be used to satisfy this requirement. Students who contemplate continuing their studies for an advanced degree are advised to elect one of the foreign languages.

<sup>1</sup>/ Rhet. 101, 102 and Speech 101 may be substituted for DGS 111 and 112.

<sup>2</sup>/ Electives must include at least 5 hours of technical agriculture and 12 hours of humanities and social science (see above).

This table reports the number of students in each of the 100 schools in the sample who are enrolled in the program. The number of students enrolled in the program is the number of students who are enrolled in the program at the time of the survey.

Public Schools		Private Schools	
Number of Schools	Number of Students	Number of Schools	Number of Students
1	10	1	10
2	20	2	20
3	30	3	30
4	40	4	40
5	50	5	50
6	60	6	60
7	70	7	70
8	80	8	80
9	90	9	90
10	100	10	100
11	110	11	110
12	120	12	120
13	130	13	130
14	140	14	140
15	150	15	150
16	160	16	160
17	170	17	170
18	180	18	180
19	190	19	190
20	200	20	200
21	210	21	210
22	220	22	220
23	230	23	230
24	240	24	240
25	250	25	250
26	260	26	260
27	270	27	270
28	280	28	280
29	290	29	290
30	300	30	300
31	310	31	310
32	320	32	320
33	330	33	330
34	340	34	340
35	350	35	350
36	360	36	360
37	370	37	370
38	380	38	380
39	390	39	390
40	400	40	400
41	410	41	410
42	420	42	420
43	430	43	430
44	440	44	440
45	450	45	450
46	460	46	460
47	470	47	470
48	480	48	480
49	490	49	490
50	500	50	500
51	510	51	510
52	520	52	520
53	530	53	530
54	540	54	540
55	550	55	550
56	560	56	560
57	570	57	570
58	580	58	580
59	590	59	590
60	600	60	600
61	610	61	610
62	620	62	620
63	630	63	630
64	640	64	640
65	650	65	650
66	660	66	660
67	670	67	670
68	680	68	680
69	690	69	690
70	700	70	700
71	710	71	710
72	720	72	720
73	730	73	730
74	740	74	740
75	750	75	750
76	760	76	760
77	770	77	770
78	780	78	780
79	790	79	790
80	800	80	800
81	810	81	810
82	820	82	820
83	830	83	830
84	840	84	840
85	850	85	850
86	860	86	860
87	870	87	870
88	880	88	880
89	890	89	890
90	900	90	900
91	910	91	910
92	920	92	920
93	930	93	930
94	940	94	940
95	950	95	950
96	960	96	960
97	970	97	970
98	980	98	980
99	990	99	990
100	1000	100	1000

Number of Schools and Number of Students

The table shows the number of schools and the number of students in each of the 100 schools in the sample. The number of schools is the number of schools that are enrolled in the program at the time of the survey. The number of students is the number of students who are enrolled in the program at the time of the survey.

The table shows the number of schools and the number of students in each of the 100 schools in the sample. The number of schools is the number of schools that are enrolled in the program at the time of the survey. The number of students is the number of students who are enrolled in the program at the time of the survey.



# HORTICULTURAL FOOD CROPS CURRICULUM (Continued)

## Suggested Agriculture Electives -- for Either Option

	<u>Hours</u>
Agr. 114--Agricultural Journalism	3
Agr. 216--Experimental and Biological Statistics	3
Agron. 306--Fertilizers and Their Soil Reactions	3
Agron. 311--Physical Edaphology	3
F. T. 202--Elements of Food Technology	3
F. T. 302--Food Processing	4
F. T. 332--Principles of Sanitation in the Processing and Handling of Foods	2
Hort. 110--Plant and Animal Genetics	3
Hort. 200--Special Problems	3-5
Plant Pathology 307--Fruit Diseases	3
Plant Pathology 308--Vegetable and Canning Crop Diseases	3
Hort. 345--Growth and Development of Vegetable Crops	4
Hort. 363--Advanced Pomology	4
Hort. 382--Improvement of Horticultural Crops by Breeding	3

## Suggested Nonagriculture Electives -- for Either Option

Accy. 201--Fundamentals of Accounting	3
Bus. Law 100--Basic Principles of Business Law	3
Geog. 211--Agricultural Climatology	3
Mgmt. 101--Industrial Organization and Management	3
Mgmt. 205--Production Planning and Control	3
Phil. 102--Logic	3
Pol. Sci. 150--American Government: Organization and Power	3
Pol. Sci. 191--Principles of Political Science	4
Psych. 100--Introduction to Psychology	4
Speech 111--Business and Professional Speaking	2



1/ Rhet. 101, 102, and Speech 101 may be taken instead of D. G. S. 111 and 112.





**CURRICULUM IN RESTAURANT MANAGEMENT**  
(for the degree of Bachelor of Science in Restaurant Management)

The curriculum in restaurant management prepares students (both men and women) for managerial positions in restaurants and other commercial food service units. It also gives them basic training for work as purchasing agents, kitchen equipment and layout specialists, food inspectors, and for other allied occupations. A total of 126 hours of credit, excluding physical education, is required for graduation.

<u>First Semester</u>		<u>First Year</u>		<u>Second Semester</u>	
	<u>Hours</u>				<u>Hours</u>
Accy. 101--Prin. of Acctg.	3		Accy. 105--Acctg. Procedure		3
Agric. 100--Lect. for Freshmen	3		Chem. 132--Elem. Organic Chem.		3
Literature	3		Literature		3
Chem. 101 or 102 or 111--Gen. Chem.	5-3		Rhet. 102--Rhet. and Comp.		3
Rhet. 101--Rhet. and Comp.	3		Speech 101--Principles of		
Physical Education	(1)		Effective Speaking		3
Military (men)	1		Physical Education		(1)
			Military (men)		1
<b>Total</b>	<b>14-16</b>		<b>Total</b>		<b>17</b>
		<u>Second Year</u>			
Econ. 108--Elements of Econ.	3		Bact. 104--Elementary Bact.		5
Home Ec. 132--Foods and Nutrition	3		Mktg. 101--Prin. of Mktg.		3
Physiol. 103--Introd. to Human			Psych. 103--Human Behavior		4
Physiology	4		Soc. 100--Principles of Soc.		3
Physical Education	(1)		Physical Education		(1)
Military (men)	1		Military (men)		1
Electives	3-6				
<b>Total</b>	<b>15-18</b>		<b>Total</b>		<b>17</b>
		<u>Third Year</u>			
An. Sci. 104--Selection and Use			Accy. 106--Elem. Cost Acctg.		3
of Meat	2		Home Econ. 240--Quantity Cookery		5
Bus. Law 261--Summary of Bus. Law	3		Management 101--Industrial Org.		
Econ. 240--Labor Problems	3		and Management		3
Home Econ. 220--Dietetics	3		Rhet. 151--Bus. Letter Writing		3
Home Econ. 231--Foods	3		Electives		3
Home Econ. 253--Restaurant In-					
teriors <sup>1/</sup> , or Electives	3				
<b>Total</b>	<b>17</b>		<b>Total</b>		<b>17</b>
		<u>Fourth Year</u>			
Home Econ. 253--Restaurant In-			Home Econ. 350--Inst. Organization		
teriors <sup>1/</sup> , or Electives	3		and Management		4
Home Econ. 345--Institution			Home Econ. 355--Advanced Quant.		
Management	3		Cook. and Catering		3
Mgmt. 248--Personnel Admin.	3		Electives		9-11
Electives	7-8				
<b>Total</b>	<b>16-17</b>		<b>Total</b>		<b>16-18</b>

Note: Two summers of a minimum of eight weeks each of practical restaurant experience are required and should be completed before registering in Home Econ. 355. This experience would normally come at the end of the second and third years.

<sup>1/</sup> Offered in alternate years.

[illegible][illegible]



NAME \_\_\_\_\_  
DATE \_\_\_\_\_

PREScribed COURSES	HOURS	GRADE	PREScribed COURSES	HOURS	GRADE
Accy. 101	3				
Accy. 106	3		Rhet. 101	3	
Agric. 100	0		Rhet. 102	3	
Animal Sci. 104	2				
Bact. 104	5		Rhet. 151	3	
Bus. Law 261	3		Soc. 100	3	
Chem. 111 or 101 or 102	5-3				
Chem. 132	3		Speech 101	3	
Econ. 108	3		*Summer Practice 1	0	
Econ. 240	3		*Summer Practice 2	0	
Eng. Lit. or (total of Amer. Lit. 6 hours)	3-4 3-2		OPEN ELECTIVES:		
Home Econ. 132	3				
Home Econ. 220	3				
Home Econ. 231	3				
Home Econ. 240	5				
Home Econ. 253	3				
Home Econ. 345	3				
Home Econ. 350	4				
*Home Econ. 355	3				
Management 101	3				
Management 248	3				
Marketing 101	3				
Physiol. 103	4				
Psychol. 103	4				
Mil.-Mil.	1-1				
Mil.-Mil.	1-1				
P.E.-P.E.	(1-1)				
P.E.-P.E.	(1-1)				
					TOTAL HOURS

\*Two summers (or equivalent) of a minimum of eight weeks each of practical restaurant experience are required and must be completed before registering in Home Econ. 355. This experience would normally come at the end of the second and third years. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at the U. of I. and a combined average of 3.0 for transfer and U. of I. work. Minimum average of 3.0 is required for graduation. 126 hours, including military and excluding P.E., are required for the degree as outlined above.









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# A Handbook for Agricultural Students and Their Advisers



Mumford Hall, College of Agriculture, University of Illinois

By  
C. D. Smith, Assistant Dean

University of Illinois College of Agriculture  
Urbana, Illinois

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Name of Student: \_\_\_\_\_

Local Address: \_\_\_\_\_, \_\_\_\_\_  
(Number and Street) (Champaign or Urbana)

Home Address:

Name of Faculty Adviser:

Office Address: \_\_\_\_\_ Phone: \_\_\_\_\_

Office Hours:





## Student Objectives

Every student who enters upon a University program should set up an educational goal that fits his abilities and interests and has such appeal for him that he will exert the effort and make the sacrifices necessary to complete his program. Although freshman interviews show that a high percentage of entering students plan to graduate, fewer than half of them complete their college work. Only a small percentage lack the inherent capacity to complete a well-selected college program with realistic goals based on abilities and interests. Most of those who drop out along the way do so because they have no goals which they are determined to reach.

The importance of setting adequate goals for yourself is shown in the following statement:

"Our skill in reaching objectives may depend in no small degree upon the clarity with which we see them. Once our objectives are clearly visible the appropriate steps for reaching them may be initiated--University objectives are concerned with the whole fabric of higher education rather than the achievement of predetermined and often narrow goals in the shortest possible time. . . . It has been suggested that four of the principal goals of professional education are the production of students possessing at graduation: (1) a minimum body of basic and fundamental knowledge which is commonly possessed by members of the profession; (2) skill in handling source materials and in adding to one's body of knowledge; (3) the ability to think, analyze, and act in the presence of new or unprecedented situations; and (4) an ethical attitude toward the uses to which a member of the profession may put his knowledge and skill."<sup>1/</sup>

Many students are inadequately motivated because their goals have been too narrowly defined. Hence the basic or fundamental subjects are termed uninteresting and impractical. Selecting courses dealing only with the methods of performing the duties of a particular job, without basing the practical skills on deeply grounded principles, will result in a perishable education. Today's world is characterized by rapid change. Few jobs are done the same way for more than ten years. The more deeply rooted your understanding, the less likely you are to be uprooted by the swift winds of change.

## Student Plans and Student Guidance

The fact that many students arrive at the University with undefined educational goals is not a serious handicap, but it can become serious if they do not begin to set up clear-cut goals in line with their capacities and interests soon after they arrive. Each freshman entering the University of Illinois is given a battery of guidance tests to help him enter upon and follow an educational program suited to his abilities. But tests alone are not enough. The goals you set must be individually chosen and must command your interests, loyalties, and devotion to the point where the effort and sacrifice necessary to attain them will be exerted.

The table on the following pages shows the range and pattern of employment normally undertaken by graduates in agriculture. It is an actual record of jobs held in 1950 by graduates. Information about trends in employment and current calls for trained personnel can be obtained from the Associate Dean's Office, 104 Mumford Hall, or from your faculty adviser.

<sup>1/</sup> Report of the Special Committee of the National Association of State Universities to Study Postwar Educational Problems--Mimeograph, 1944.





The University has provided the following five main agencies to give you help and guidance in selecting and planning your individual program:

1. The Student Counseling Bureau, 311 Administration (E), administers and interprets tests concerned with the students' abilities, interests and personality. Professional help with study habits, reading skills and personal problems is also available.
2. The Faculty Adviser, a member of the teaching staff who is chosen by the student or assigned by the Associate Dean's office, helps the student with the ordinary problems of course selection and individual activities. Each faculty adviser serves only as many students as he can know well. If you fail to become acquainted with your adviser, the purpose of the advisory plan is defeated. Your faculty adviser is glad to assist you--make use of him.

It is particularly important for you to seek the counsel of your faculty adviser before and during registration in order that your program may be carefully planned. Occasionally students turn to anyone who will sign a study list. This is likely to result in a short-sighted semester program which will not lead directly toward your objective.

A faculty adviser is assigned to new freshmen without consultation, because the freshmen usually are not acquainted with members of the staff. During the second year, the student is invited to select his own adviser with the help of the staff in the Associate Dean's office. If at any time you wish to change programs or advisers, you should come to the Associate Dean's office.

3. The Instructor is a specialist in his field, well acquainted with the subject matter and its related employment opportunities. Do not hesitate to discuss your problems with your instructors. They are here to serve you. They can provide channels through which you may see new opportunities. To locate instructors, use the Staff Directory.
4. The Dean and the Associate Dean of the college are responsible for administering student programs and for keeping records. The Associate Dean's office is the principal center for information about college and university regulations, grade requirements, credits to be earned, honors, employment opportunities, and many other facts concerning your educational progress. You should feel free to call on this office with any problem on which you feel you need help.
5. The office and personnel headed by the Dean of Students, 152 Administration (W), including the Dean of Men, 157 Administration (W), the Dean of Women, 100 English Building, the Health Service, Davenport House, and the Director of Residence Halls and Student Housing, 108 Illini Hall, are ready to serve all students, particularly with relation to problems outside the area of formal education.





## JOB DISTRIBUTION AND SALARIES OF AGRICULTURAL GRADUATES AS OF 1950

Job title	Graduates		Salary <sup>1/</sup>		Years since graduation				
	No.	% of total	No. re- porting	Average salary	1-10	11-20	21-30	31-40	41-50
<b>EDUCATIONAL WORKERS</b>									
College Teachers (total)	143	5.61	115	\$5,918	46	29	37	29	2
Grad. Assistants	22	.86	-	-	21	1	-	-	-
Instructors	17	.67	16	4,536	8	5	3	1	-
Assistant Professors	30	1.18	27	4,922	11	9	8	2	-
Associate Professors	21	.82	20	5,685	3	6	11	1	-
Professors	53	2.08	52	6,951	3	8	15	25	2
College Administrators	9	.35	8	8,035	1	2	3	3	-
County Agents (Farm Advisers)	92	3.61	89	5,345	22	33	21	16	-
Asst. County Agents & Youth Advisers	49	1.92	49	3,520	47	2	-	-	-
Extension Specialists & Directors	29	1.14	29	5,666	6	7	8	8	-
High School Teachers	431	16.92	391	4,356	233	81	87	30	-
Total Educational Workers	753	29.56	681	4,788	355	154	156	86	2
<b>PROFESSIONAL TECHNICIANS</b>									
Agronomists (total)	101	3.97	95	5,142	39	27	23	12	0
Soil Conservation Service	53	2.08	50	4,453	23	15	11	4	0
Soils	26	1.02	24	5,584	8	5	9	4	0
Crops	22	.86	21	6,278	8	7	3	4	0
Animal Husbandmen	20	.79	16	4,938	14	4	2	0	0
Chemists and Bacteriologists	24	.94	19	6,355	10	4	7	3	0
Dairy Husbandmen	17	.67	16	4,010	12	4	0	1	0
Economists & Statisticians	49	1.92	47	6,897	18	14	13	4	0
Engineers (Agr. & Others)	22	.86	19	5,096	8	4	5	5	0
Entomologists & Zoologists	9	.35	8	5,980	0	2	6	0	1
Farmers Home Administration	23	.90	20	4,881	8	8	4	3	0
Horticulturists	10	.39	7	6,209	2	1	5	2	0
Inspectors (Grain, Seed, & Feed)	18	.71	16	4,653	8	5	4	1	0
Total Professional Technicians	293	11.50	263	5,463	119	73	69	31	1
<b>FARMERS &amp; FARM MANAGERS</b>									
Farmers (total)	540	21.20	264	6,162	213	139	99	74	15
Owner-Operators	195	7.66	71	7,787	18	30	72	61	14
Partnerships	143	5.61	81	5,450	90	38	12	3	0
Tenants	194	7.62	106	5,851	97	71	15	10	1
Farm Hands	8	.31	6	2,033	8	0	0	0	0
Farm Managers	113	4.44	96	5,000	49	34	16	10	4
Total Farmers & Farm Managers	653	25.64	360	5,852	262	173	115	84	19

<sup>1/</sup> Readers should keep in mind the fact that salaries listed are those reported for the year 1950 and do not reflect general increases that have taken place since that time.

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## JOB DISTRIBUTION AND SALARIES OF AGRICULTURAL GRADUATES AS OF 1950 - cont.

Job title	Graduates		Salary		Years since graduation				
	No.	% of total	No. re- porting	Average salary	1-10	11-20	21-30	31-40	41-50
<b>BUSINESS &amp; INDUSTRY</b>									
Managers and Supervisors	233	9.15	208	\$8,148	73	75	58	24	3
Agriculture Cooperatives	18	.71	18	6,207	8	4	5	1	0
Dairy Manufactures	65	2.55	57	8,529	19	26	15	5	0
Fruits, Vegetables, & Produce	17	.67	13	6,336	8	4	1	4	0
Grain, Seed, Feed, Fertilizer	50	1.96	45	9,288	14	15	16	4	1
Hatcheries	11	.43	7	6,641	3	6	1	1	0
Livestock Marketing & Meat Packing	16	.63	16	4,108	7	2	4	2	1
Machinery, Equipment, & Service	53	2.08	49	8,629	14	17	15	6	1
Miscellaneous Business & Service	3	.12	3	20,500	0	1	1	1	0
Salesmen & Sales Managers	176	6.91	153	6,378	84	38	31	19	4
Agricultural Chemicals	8	.31	8	6,388	5	3	0	0	0
Dairy Products	16	.63	14	6,700	8	7	1	0	0
Feed	18	.71	16	5,351	12	3	2	1	0
Fertilizer	20	.79	18	4,703	12	4	3	1	0
Grain, Grain Products, & Seed	20	.79	19	6,169	8	5	5	1	1
Insurance	48	1.86	36	7,510	24	8	6	8	2
Livestock Products (Meat, Eggs)	8	.31	8	4,510	8	0	0	0	0
Machinery & Equipment	21	.82	18	7,683	5	5	6	4	1
Miscellaneous Products & Equipment	17	.67	16	6,164	2	3	8	4	0
Owners & Operators, Miscellaneous, Non-Agricultural Businesses	31	1.22	23	12,470	3	6	6	15	2
Florists, Nursery, & Landscaping	82	3.22	58	7,488	16	30	20	15	1
Farm Loans & Appraisal	47	1.85	47	5,773	8	21	7	11	0
Bank Officials	16	.63	15	9,685	2	3	6	5	0
Real Estate & Loan Agents	11	.43	8	9,512	1	0	6	4	0
Journalism, Radio & Advertising	37	1.45	29	8,570	11	8	10	8	0
Public Relations	9	.35	9	8,581	2	2	4	0	1
Laboratory Technicians	8	.31	8	2,981	7	0	1	0	0
Total Business & Industry	650	25.52	558	7,588	207	183	149	101	10
<b>MISCELLANEOUS PROFESSIONS &amp; OTHERS</b>									
Doctors & Dentists	11	.43	-	-	1	3	3	3	1
Veterinarians	5	.20	-	-	5	0	0	0	0
Lawyers	11	.43	-	-	7	1	2	1	0
Ministers & Missionaries	11	.43	7	4,200	3	1	5	2	0
Public Officials (Government)	42	1.65	35	5,989	7	5	18	11	1
Army, Navy, and Air Force	22	.86	19	6,009	9	10	2	1	0
Students (Graduate & Professional)	46	1.81	-	-	42	2	2	0	0
Retired & Disabled	26	1.02	-	-	2	0	3	19	2
General Miscellaneous	24	.94	18	4,362	10	6	5	3	0
Totals	198	7.77	79	5,465	85	28	40	40	4
<b>GRAND TOTAL</b>	2,547	99.99	1,941	\$ 5,909	1,022	611	529	342	36





EXAMPLES OF INITIAL EMPLOYMENT AND SALARIES -

## June 1960 COLLEGE OF AGRICULTURE GRADUATES

This summary includes 121 men who completed work for the Bachelor of Science degree in June, 1960. Beginning salaries ranged from \$4000 to \$6000 a year. The average was \$4950; however, the majority were in the \$4500-5500 bracket.

Thirty-five of the graduates had completed military service. Eight-six men still have a military obligation to fulfill. However, it should be noted that these will be distributed throughout the other classifications after completing military service or graduate work.

<u>Initial employment or status</u>	<u>Number</u>	<u>Percent of June 1960 graduates</u>
<u>PROFESSIONAL ADVANCEMENT</u>	34	28%
Graduate work (30), College of Law (1), additional undergraduate work (3)		
<u>AGRICULTURAL BUSINESS AND INDUSTRY</u>	15	12%
Farm equipment (3), elevator management (1), sales and service (feed, seed, fertilizer, agricultural chemical, etc.) (4), food merchandising (1), commercial seed corn company (1), farm management (1), dairy plant management (1), quality control (2), floral shop management (1)		
<u>FARMERS</u>	14	11.5%
Includes tenants, partnerships, and owner-operators		
<u>MILITARY SERVICE</u>	30	25%
<u>EDUCATIONAL WORKERS</u>	14	11.5%
Vocational agriculture teachers (12), assistant farm advisers (2).		
<u>MISCELLANEOUS</u>	7	6%
USDA livestock marketing specialist (1), Cooperative Crop Reporting Service (1) Soil Conservation Service (2), Food and Drug Administration (2), herdsman (1).		
<u>UNDECIDED</u>	7	6%
As of June 20, 1960, these men had not made definite job decisions.		
Total	121	100%





## CURRICULA AND MAJORS AS EDUCATIONAL PROGRAMS

The College of Agriculture has, excluding home economics, eleven curricula with various majors or options leading to degrees.

The curricula are:

1. General Curriculum in Agriculture with majors in
  - a. Agricultural Communications
  - b. Agricultural Economics
  - c. Agricultural Mechanization
  - d. Agronomy
  - e. Animal Science
  - f. Dairy Science
  - g. Horticulture
  - h. General Agriculture
2. General Curriculum in Agriculture with major for teachers of Vocational Agriculture
3. Agricultural Industries
4. Agricultural Science with options in:
  - a. Animal, plant, or soil science
  - b. Agricultural economics, rural sociology, or agricultural law
  - c. Agricultural engineering--five-year combined program in Agricultural Science and Agricultural Engineering
5. Dairy Technology
6. Floriculture and Ornamental Horticulture
7. Food Technology
8. Forest Production
9. Wood Technology and Utilization
10. Horticultural Food Crops
11. Restaurant Management

Curricula are educational programs carefully planned to guide students whose educational goals are within certain related areas. They contain:

1. The basic skills or foundation courses required of all students, such as rhetoric, physical education and, for men, military training.
2. A minimum content of general education, in the biological, physical, and social sciences and the humanities, widely held to be essential in any program of college education.
3. The additional basic sciences, including mathematics.
4. Applied courses leading to professional attainments sufficient to permit entrance to some field of professional work or more advanced training on the graduate level. Students planning graduate study should consider the curriculum in agricultural science (pages 50-56).

The following pages present the agricultural curricula and majors in outline form suitable to use as guides or check sheets. Each student should use the appropriate curriculum page to record his progress. As each course is completed, the grade can be inserted, and it will then be possible to determine the remaining requirements. When the student reaches the junior level, the Associate Dean's office sends him a check sheet showing the work yet to be completed before graduation.





With the exception of the curricula in agricultural science, agricultural industries, and in general agriculture, elective freedom is somewhat limited because the field of work to which each of the other curricula leads calls for specialized training of a specific character.

The general curriculum in agriculture includes a common core program for the first two years. For the junior and senior years, the student may select one of the approved departmental majors, or the vocational agriculture major; or he may continue with a broad general program by selecting the general major. This curriculum is broad and flexible, with sufficient electives and majors to meet the specific needs of different students.

The curriculum in agricultural industries is designed to prepare students for careers in those industries and businesses that service or are related to agriculture. It provides a broad selection of courses in agricultural sciences, natural sciences, economics and other social sciences, business administration, finance, communication, and the humanities. Because of the similarity of courses during the first two years, students may readily transfer from the general curriculum to the agricultural industries curriculum at any time during the first two years.

The curriculum in agricultural science is suited to those students desiring a stronger foundation in science, mathematics, or engineering, and it is especially recommended for all students expecting to do graduate study or enter upon advanced technical work in an agricultural industry. A student selecting the curriculum in agricultural science should ask for assignment to a faculty adviser in his field of special interest. Ordinarily this should be done by the beginning of the sophomore year.

The purposes of the curricula in dairy technology, floriculture, and ornamental horticulture, food technology, forestry, horticultural food crops, and restaurant management are indicated by their names. The student should refer to the University of Illinois Undergraduate Study Bulletin for course descriptions.

All students in the College of Agriculture should secure and keep for reference two printed booklets normally handed out during the first freshman registration. These booklets are (1) "University of Illinois Regulations Applying to Undergraduate Students" and (2) "Scholastic Regulations Applying to Undergraduate Students, College of Agriculture." The first of these booklets contains many items of information useful to all students in the University. The second contains information about required standards of scholarship and provisions for graduation with honors in the College of Agriculture

#### Requirements for Graduation

Students who have satisfied the general University requirements for graduation, have maintained throughout their courses a satisfactory record of scholarship and moral character, and have completed a curriculum in the College of Agriculture, including the prescribed studies and sufficient electives, are graduated with the degree of Bachelor of Science. For the degree in horticultural food crops, 132 semester hours of credit are required for graduation, including military and excluding physical education. For the degree in food technology, the requirement for graduation is 130 hours, exclusive of physical education and the first two years of basic military. For the degree in forestry, either curriculum, the requirement for graduation is a minimum of 140 hours of credit, including eight credit hours earned in summer camp, military science, and excluding physical education. All other agriculture curricula require 126 hours, including basic military and excluding physical education. Students who transfer from other educational institutions are required to complete in residence at least half the technical agriculture credit required for the degree; they must also complete their senior year, of not less than 30 semester hours, in residence at the University.





Credit Restrictions. Any student entering the College of Agriculture for the first time after September 1, 1958, may not count work taken in physical education toward any degree in the College of Agriculture. The physical education requirement for graduation remains the same; however, grades in physical education are not included in the student's average. This restriction does not apply to courses in dance, health education, and recreation.

Students who entered the College of Agriculture prior to September 1, 1958, may count physical education credits in accordance with the rules in effect at the time of their admission.

No more than 15 credit hours in approved Institute of Aviation courses may be counted toward a degree in agriculture.

No typing or shorthand courses, not more than two hours of credit in music ensemble courses, and not more than ten hours of credit in religion may be counted toward graduation.

No credit toward graduation will be given for Math. 101 and/or 102.

Effective September, 1958, no credits are granted on the basis of G.E.D. tests.

Not more than ten hours of credit in special problems courses may be counted toward graduation in agriculture and home economics curricula.

Grade-Average Requirements. Students who first entered the University of Illinois between October 1, 1947, and August 1, 1956, must attain a grade-point average of not less than 3.0 ("C") to qualify for the B.S. degree. All work taken, both in residence and transferred, is included in the computation of grade averages. This includes grades of "E" (failure), "ab" (absent), and "dr" (dropped). All grades including "E", "ab", or "dr" always remain in the over-all average, even though the student repeats the course. Grades of "ab" and "dr" are equivalent to "E".

Effective August 1, 1956, each candidate for graduation must have an average of not less than 3.0, including grades in courses transferred from other institutions, and he must have an average of not less than 3.0 in all courses taken at the University of Illinois. Students who transfer work after August 1, 1956, will be subject to this requirement even though they may originally have enrolled in the University of Illinois prior to August 1, 1956. When a course has been repeated, both the original and subsequent grades are included in the average. (Example: If a student has completed a course with a grade of "D" and obtains the Associate Dean's permission to repeat the course, and upon second registration receives a grade of "C", both grades will be used in computing the over-all average. Credit is, however, given only once for the same course.)

Encouragement of superior students has always been an aim of the College. Beginning with the academic year 1959-60, the College will participate in the University Honors Program. A special seminar and other activities will be conducted for James Scholars in agriculture and for other top agriculture college students.



...the first time after September 1, 1964, and the second time in 1965. The purpose of this investigation is to determine the extent of the problem and to develop a plan of action to correct it. This investigation was conducted by the Department of Education and the Department of Health and Welfare. The results of the investigation are as follows: ...

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...the results of the investigation are as follows: ...



Registration in Special Problems Courses. Courses offered by the various departments under the heading or classification of Special Problems may serve one or more of the following purposes:

1. An opportunity for students to test their abilities for research and individual study.
2. A means of studying a subject-matter area or problem not covered by a formal course offering.
3. A means of making a contribution to the departmental research program in a limited manner.

The following minimum prerequisite has been adopted by the departments concerned for registration in Agricultural Economics 200, Agronomy 200, Agricultural Engineering 300, Animal Science 200, Dairy Technology 200, Horticulture 200, and Plant Pathology 300:

"Minimum grade point average, 3.5; not open to students on probation; consent of the instructor and head of the department."

A special registration form must be secured from the Associate Dean's Office for each registration in a special problem course. Exceptions to the stated prerequisite may be made in unusual cases.

#### General University Requirements

Certain courses, such as rhetoric, military science (for men), and physical education, are required for all students. Unless specifically exempted, each student is expected to register for these courses each semester until he has completed the requirements in each.

Rhetoric. Satisfactory proficiency in the use of written English is a requirement for graduation. Students who receive grades of "C" or "D" in Rhetoric 102 (or its equivalent) are required to take an English qualifying examination before graduating. Those who fail to pass the qualifying examination are required to pass an extra semester course in rhetoric (Rhetoric 200).

Military and Physical Education. Students entering the University with less than sixty semester hours of credit are required to secure four semesters of credit in physical education and military (unless otherwise exempt from the military requirement). Those who enter the University with sixty or more semester hours of credit are exempt from the requirement in physical education and basic military.





### Mathematics Requirement

The standard mathematics requirement for admission to the College of Agriculture is one year of high school algebra and one year of high school geometry. Because of the increasing importance of mathematics in everyday life and in most professions, including agriculture, the faculty of the College recommends that students include as much additional mathematics in their high school programs as possible.

A minimum of one course in college algebra is required for graduation in all agriculture curricula, unless the student is exempted by the mathematics placement examination.

To insure that entering students will be placed in the appropriate college mathematics course, we are now offering a mathematics placement test. This test is to be taken by all students entering the College of Agriculture unless exempted (see below). It is not a proficiency examination. No credit toward graduation will be given to students who pass it. Those who make a sufficiently high grade will be exempt from the algebra requirement and, if they wish or if their curriculum requires it, they may begin college mathematics with a more advanced course, such as trigonometry or analytical geometry.

Test I is included as a part of the Freshman Guidance Examinations and covers the usual topics of the first course in college algebra. It is given at regularly scheduled times during the late spring and early summer and during the registration periods in September and February. Entering students are notified of the time and place when they apply for admission and receive their permits to enter.

Test II, advanced mathematics placement test, covers the subjects of advanced algebra, trigonometry, and geometry. New students should consult their New Student Week Program for purpose, eligibility, time, and place of this test. The mathematics placement test should not be confused with entrance examinations. Entrance examinations are offered several times each year and are taken by applicants who need to remove deficiencies in specific subjects for admission.

### Exceptions

Students who enter with acceptable equivalent college credit in algebra are exempt from the mathematics placement test I.

A student who is admitted with a deficiency in high school mathematics will not take the placement examination until after he has made up his deficiency. The minimum prerequisite for Math. 111, 112, and 104 is one year of high school algebra and one year of high school geometry. Temporarily, Math. 101 may be taken without credit to remove a deficiency in high school algebra, and Math. 102 may be taken without credit to remove a deficiency in high school geometry. Math. 101 and 102 will be discontinued after September 1961. A student with deficiencies must consult with the Assistant or Associate Dean concerning the appropriate course and procedure for removing his deficiency.



THEORY OF THE SUBJECT

The standard definition of a subject is that it is a person or thing which is the object of a verb. This definition is not very satisfactory, for it does not explain what is meant by "object of a verb". It is better to say that a subject is a person or thing which is the subject of a sentence. This definition is more satisfactory, for it explains what is meant by "subject of a sentence".

A subject of a sentence is a person or thing which is the subject of a sentence. It is the person or thing which is the subject of a sentence. It is the person or thing which is the subject of a sentence.

To know the meaning of a subject is to know the meaning of a sentence. This is because a sentence is a statement about a subject. If we know the meaning of a subject, we can understand the meaning of a sentence. For example, if we know the meaning of "man", we can understand the meaning of "man is mortal".

There is a subject in every sentence. It is the person or thing which is the subject of a sentence. It is the person or thing which is the subject of a sentence. It is the person or thing which is the subject of a sentence.

That is, a subject is a person or thing which is the subject of a sentence. It is the person or thing which is the subject of a sentence. It is the person or thing which is the subject of a sentence.

THEORY OF THE SUBJECT

There is a subject in every sentence. It is the person or thing which is the subject of a sentence. It is the person or thing which is the subject of a sentence. It is the person or thing which is the subject of a sentence.

I cannot see the subject of a sentence. It is the person or thing which is the subject of a sentence. It is the person or thing which is the subject of a sentence. It is the person or thing which is the subject of a sentence.

## GENERAL CURRICULUM IN AGRICULTURE

This is a general curriculum in the sense that it provides for a common core program for the first two years. For the junior and senior years, the student may select one of the approved departmental majors or he may continue with a broad general program by selecting the general agriculture major. All students in agriculture pursue a similar general core program for the first two years except those in Agricultural Science, Dairy Technology, Floriculture and Ornamental Horticulture, Food Technology, Forestry, Home Economics, Horticultural Food Crops, and Restaurant Management.

Freshmen may enter this general curriculum without specifying a major. Transfer students entering this curriculum with 45 or more credit hours should indicate their proposed major on the Application for Admission blank. Each student must make his choice of major not later than the beginning of the junior year and notify the College office of his choice.

The purposes, objectives, and requirements of the various majors and options are outlined on the following pages.

The core program for the first two years includes all general University requirements as well as a broad foundation in basic sciences essential to a fuller understanding of agriculture. In addition, the student has considerable freedom of choice of introductory courses in agriculture. By proper choice of Group I courses, in line with the student's ultimate objective and major, the student is ready to proceed with more advanced courses in his junior and senior years. Agriculture 100, required of all freshmen in agriculture, is designed to assist the student in clarifying his objectives.

Upon completion of all requirements of this curriculum, with an approved major and a minimum of 126 semester hours of credit, the student is awarded the degree of Bachelor of Science in Agriculture.

Transfers should note that no credit is allowed for certain courses, such as Agricultural Economics 100 and Horticulture 100 for students with 60 or more credit hours. Agricultural Economics 220 or 230 may be substituted for Agricultural Economics 100, and Horticulture 242 or 262 may be substituted for Horticulture 100 and may be counted toward the fifteen hours required in Group I, provided the course taken as a substitute is not needed to fulfill some other agriculture group requirement in the major or option.

Each student is encouraged to study the requirements of the various majors and options and to select the one which best fits his objectives prior to the beginning of his junior year. An appropriate adviser will then be assigned to assist him in planning his program for the junior and senior years.

Recommended or suggested electives are listed with each major. They are listed as a guide. Other courses than those shown may be taken as electives if more appropriate for the student's objective.

A general major is provided for those whose objectives do not properly fall within one of the approved departmental majors. Those who are preparing to teach vocational agriculture in high school must complete the general curriculum with a major in vocational agriculture.







## For the degree of Bachelor of Science in Agriculture

Sample Program for First Two YearsFirst Year

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Rhet. 101--Rhet. & Comp. <sup>1/</sup>	3	Bot. 100--Gen. Bot., or Zool. 104--	
Agr. 100--Lectures for Freshmen <sup>3/</sup>	0	Elem. Zool.	4
Agr. courses from Group I		Chem. 101, 102, or 111--Gen. Chem. <sup>4/</sup>	3-5
or Math. 111, 112, or 104--Alg.		Rhet. 102--Rhet. & Comp. <sup>1/</sup>	3
or Alg. and Trig. <sup>2/</sup>	3-5	Math. 111, 112, or 104--Alg. or	
Agr. course from Group I	4	Alg. and Trig. <sup>2/</sup>	
Zool. 104--Elem. Zool., or Bot. 100--		or Agr. course from Group I	3-5
Gen. Bot.	4	Military (men)	1
Military (men)	1	Physical Education	(1)
Physical Education	(1)		
Total	15-18	Total	15-17

Second Year

Chem. 132 or 133--Organic Chem. <sup>4/</sup>	3-5	Econ. 108--Elem. of Econ.	3
Geology 105--Agr. Geology	3	Speech 101--Prin. of Eff. Speaking <sup>1/</sup>	3
Two Agr. courses from Group I	6-7	Agr. course from Group I	3
Military (men)	1	Electives	6
Physical Education	(1)	Military (men)	1
		Physical Education	(1)
Total	15-17	Total	17

Group I - Agriculture prescribed. Agriculture 100 and a minimum of 15 hours from other courses listed below must be selected and should be completed during the first two years:

	<u>Hours</u>
Agr. 100--Lectures for Freshmen in Agriculture <sup>3/</sup>	0
Agr. Econ. 100--Introductory Agricultural Economics	3
Agr. Eng. 100--Engineering Applications in Agriculture	3
Agronomy 121--Crop Production	4
An. Sci. 100--Introduction to Animal Science	3
An. Sci. 102 or Da. Sci. 102--Feeds and Feeding	3
Da. Sci. 100--Introduction to Dairy Production	3
Forestry 100--Farm Forestry	3
Genetics (Agron. 110, An. Sci. 110, Da. Sci. 110, or Hort. 110)--Plant and Animal Genetics	3
Hort. 100--Introductory Horticulture	3

Junior and Senior Years

For junior and senior years, see approved majors. The general requirements in addition to the courses listed for the first two years include (1) completion of all prescribed courses listed for the major, (2) completion of at least 50 hours of agriculture courses, including prescribed and elective, (3) completion of at least twelve hours of humanities and social science (including those specifically prescribed in the student's major) and (4) completion of sufficient open electives to bring total hours to 126.



HUMANITIES AND SOCIAL SCIENCES - A minimum of 12 hours from anthropology, art, economics, finance, foreign language, geography, history, landscape architecture, literature, music, philosophy, political science, psychology, religion, sociology, or speech. These courses will normally be taken during the junior-senior years.

- 1/ D. G. S. 111 and 112, Verbal Communications, both four-hour courses, may be substituted for Rhetoric 101, 102, and Speech 101.
- 2/ A student in this curriculum is required to complete either Mathematics 111, Algebra, 5 hours; or Mathematics 112, College Algebra, 3 hours; or Mathematics 104, Elements of Algebra and Trigonometry, 3 hours; or pass the placement examination in mathematics. (Mathematics 104 does not serve as a prerequisite for more advanced courses in mathematics and should not be taken by those who plan to take Mathematics 114, 122, or 123, or by those who plan to major in agricultural economics general option.) A student who passes the placement examination will not be required to take Mathematics 111, 112, or 104, but if he wishes he may take a more advanced course in mathematics. Student who enter the general curriculum with acceptable equivalent college credit in algebra are not required to take the placement examination or additional mathematics. See page 10 for additional details.
- 3/ A non-credit orientation course required of all freshmen in agriculture.
- 4/ One course in organic chemistry is required. For students preparing for graduate training in animal, plant, or soil science, Chemistry 101 or 102 and Chemistry 105 and 133 are recommended. Advisers may recommend this chemistry sequence for other students where appropriate to their aims and objectives in place of Chemistry 111 and Chemistry 132. Chemistry 111 and Chemistry 132 are terminal courses and satisfy the minimum chemistry requirements for graduation. Chemistry 105 is a prerequisite for Chemistry 133. Chemistry 132 is not a satisfactory prerequisite for Chemistry 350, 354, and 355, Biochemistry.



RESEARCH AND SOCIAL SCIENCE - A series of 12 books from the following series: Economics, History, Law, Literature, Medicine, Philosophy, Political Science, Psychology, Sociology, and Technology. These books will normally be found under the following classification:

1. General Information - This series contains 12 books, 11 of which are in the following classification: 1. General Information, 2. General Information, 3. General Information, 4. General Information, 5. General Information, 6. General Information, 7. General Information, 8. General Information, 9. General Information, 10. General Information, 11. General Information, 12. General Information.

2. General Information - This series contains 12 books, 11 of which are in the following classification: 1. General Information, 2. General Information, 3. General Information, 4. General Information, 5. General Information, 6. General Information, 7. General Information, 8. General Information, 9. General Information, 10. General Information, 11. General Information, 12. General Information.

3. General Information - This series contains 12 books, 11 of which are in the following classification: 1. General Information, 2. General Information, 3. General Information, 4. General Information, 5. General Information, 6. General Information, 7. General Information, 8. General Information, 9. General Information, 10. General Information, 11. General Information, 12. General Information.

4. General Information - This series contains 12 books, 11 of which are in the following classification: 1. General Information, 2. General Information, 3. General Information, 4. General Information, 5. General Information, 6. General Information, 7. General Information, 8. General Information, 9. General Information, 10. General Information, 11. General Information, 12. General Information.

SUMMARY OF HOURS PRESCRIBED AND ELECTIVE  
FOR THE DEPARTMENTAL MAJORS

	1	2	3	4	5	6	7	8
	Core program		Addi-		Humani-	Addi-		
	Agr.	Non-Agr.	tional		ties	tional	Open	
Major	Pre-	Pre-	Pre-	Agr.	and	Pre-	Elec-	Total
	scribed	scribed	scribed	tives	Social	scribed	tives	
					Sciences			
Agr. Comm.	15-16	34-43	20-27	8-14	12	20	10-1	126
Agr. Econ.	15-16	34-43	17-20	18-14	12	5	25-16	126
Farm Mgmt. Option	15-16	34-43	22-28	13-6	12	-	30-21	126
Mktg. Option	15-16	34-43	17-20	18-14	12	6	24-15	126
Rur. Soc. Option	15-16	34-43	17-20	18-14	12	-	30-21	126
Agr. Mechan.	15-16	34-43	23-26	12-8	12	15	15-6	126
Agron.	15-16	34-43	25-32	10-2	12	-	30-21	126
An. Sci.	15-16	34-43	23-34	12-0	12	6	24-15	126
Da. Sci.	15-16	34-43	23-32	12-2	12	6	24-15	126
Hort.	15-16	34-43	26-32	9-2	12	5	25-16	126
Voc. Agr.	15-16	34-43	21-27	14-7	12	19	11-2	126
Gen. Agr.	15-16	34-43	23	12-11	12	-	30-21	126

Col. 1. Range depends upon the courses selected from Group 1.

Col. 2. Range depends upon selection of chemistry and mathematics courses.

Col. 3. Range depends upon additional Group 1 courses required for major.

Col. 4. Range depends upon hours of agriculture required to total 50.

Col. 7. Range depends upon additional hours required to equal 126.

For transfer students the hours prescribed by various groups will vary somewhat from these figures, depending upon the exact number of hours transferred and accepted in substitution for prescribed courses.

CHINA AND COMMUNISM WITH A FOREWORD  
BY THE AUTHOR

Date	Time	Location		Altitude	Temperature	Humidity	Wind Speed	Wind Direction	Remarks
		Latitude	Longitude						
1961	10-00	10	10	10-00	70-00	10-00	10-00	10-00	10-00
1961	10-05	10	10	10-05	70-05	10-05	10-05	10-05	10-05
1961	10-10	10	10	10-10	70-10	10-10	10-10	10-10	10-10
1961	10-15	10	10	10-15	70-15	10-15	10-15	10-15	10-15
1961	10-20	10	10	10-20	70-20	10-20	10-20	10-20	10-20
1961	10-25	10	10	10-25	70-25	10-25	10-25	10-25	10-25
1961	10-30	10	10	10-30	70-30	10-30	10-30	10-30	10-30
1961	10-35	10	10	10-35	70-35	10-35	10-35	10-35	10-35
1961	10-40	10	10	10-40	70-40	10-40	10-40	10-40	10-40
1961	10-45	10	10	10-45	70-45	10-45	10-45	10-45	10-45
1961	10-50	10	10	10-50	70-50	10-50	10-50	10-50	10-50
1961	10-55	10	10	10-55	70-55	10-55	10-55	10-55	10-55
1961	11-00	10	10	11-00	71-00	11-00	11-00	11-00	11-00
1961	11-05	10	10	11-05	71-05	11-05	11-05	11-05	11-05

1. The first step in the process of identifying a problem is to recognize that a problem exists. This involves gathering information about the situation and identifying the specific issue that needs to be addressed.

... ..

1. The first step is to identify the problem or question that needs to be answered.

...the ... ..

THE JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION  
PUBLISHED WEEKLY  
Subscription price, Five Dollars Per Annum in Advance  
Single Copies, Fifteen Cents  
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CHICAGO, ILL.

[illegible]



## General Curriculum in Agriculture, cont.

## MAJOR IN AGRICULTURAL COMMUNICATIONS

This major will provide training for students interested in the newspaper or farm magazine field, farm radio or television, advertising, agricultural public relations, agricultural college and U. S. Department of Agriculture editorial work, and other positions requiring education in both agriculture and communications. It is offered jointly by the College of Agriculture and the College of Journalism and Communications.

For common core requirements of this major, see pages 11 and 12 of the "Handbook for Agricultural Students and Their Advisers." Other courses required for this option are:

<u>Prescribed Courses in Agriculture</u> <sup>1/</sup>	<u>Hours</u>
Agr. 114--Agricultural Journalism (I, II)	3
Agr. 214--Advanced Agricultural Journalism (II)	3
Agr. Econ. 220--Farm Management (I, II)	3
Agr. Econ. 230--Marketing of Agricultural Products (I, II), <u>or</u> Agr. Econ. 305--Agricultural Development and Policies (I)	3
Agron. 121--Crop Production (I, II)	4
Agron. 201--Soils (I, II)	5
An. Sci. or Da. Sci. 102--Feeds and Feeding (I, II)	3
Rural Sociol. 117--Introduction to Rural Sociology (I, II)	3
<u>Elective Courses in Agriculture</u> , including at least 6 hours at the 200 or 300 level to bring total agriculture to a minimum of 50 hours	50
<u>Humanities and Social Sciences</u> --12 hours from: anthro., art, econ., fin., for. lang., geog., hist., land. arch., lit., music, phil., pol. sci., psych., religion, soc., and speech. <u>MUST INCLUDE:</u> D. G. S. 171--Psychology (I, II), <u>or</u> Psych. 100--Introduction to Psychology (I, II) Pol. Sci. 150--American Government (I, II)	4 3
<u>Prescribed Courses (20 hours minimum) in the College of Journalism and Communications</u>	20
<u>Advertising Option:</u> Adv. 281--Introduction to Advertising (I, II) Adv. 382--Advertising Copy and Layout (I, II) Adv. 383--Advertising Media (I, II) Adv. 384--Advertising Campaigns (I, II) Electives in the College of Journalism and Communications	3 4 2 3 8

1/ A student should plan to take Agr. 114 in his sophomore year.

THE JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION

The Journal of the American Medical Association is published weekly, except on Sundays, and is the only medical journal published in the United States. It is the official journal of the American Medical Association, and is the only journal published in the United States that is read by the majority of the American medical profession. It is the only journal published in the United States that is read by the majority of the American medical profession.

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1914

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## General Curriculum in Agriculture, cont.

News-Editorial Option:

	<u>Hours</u>
Journ. 204--Typography (I, II)	2
Journ. 211--News writing (I, II)	3
Journ. 212--Public Affairs Reporting (I, II)	3
Journ. 321--News Editing (I, II)	4
Journ. 323--Advanced Reporting or Journ. 326--Magazine Article Writing (I, II), or Radio-TV 365--Radio News (I, II)	3
Electives in the College of Journalism and Communications	5

Radio-TV Option:

Journ. 211--News writing (I, II)	3
Radio-TV 252--Television Laboratory (I, II)	3
Radio-TV 261--Principles of Radio and Television Broadcasting (I, II)	2
Electives in the College of Journalism and Communications, including at least six hours of radio-TV courses in addition to 252 and 261	12

Non-Agriculture Prescribed Courses (as included in the Common Core Program)

34-43  
116-125

Open Electives (1-10) to Bring Total Hours to:

126

Recommended Agriculture Electives

In consultations with adviser, electives may be chosen to

- round out a general program with at least one course in as many agriculture subject-matter departments as possible, or
- sub-specialize in a single subject-matter category.

For the Bachelor of Science in Communications with a minor in Agriculture, the student may take his first two years of work in the College of Agriculture or in the College of Liberal Arts and Sciences. The student must complete a minimum of twenty semester hours in agriculture courses as follows:

Required Agriculture Courses:

	<u>Hours</u>
Agronomy 121--Crop Production (I,II)	4
Animal Science or Da. Sci. 102--Feeds and Feeding (I, II)	3
Agricultural Economics 220--Farm Management (I, II)	3
Approved Electives in Agriculture	10
TOTAL	20

These twenty hours may be substituted for the twenty hours of advanced social studies required for graduation by the College of Journalism and Communications. The agricultural electives are to be chosen from the following courses: Agr. Eng. 111, 112; Agr. Econ. 305; Agron. 201, An. Sci. 201, 301, 303, or 304; Da. Sci. 100; Forestry 101; Hort. 100; and Rural Sociology.

After two years of pre-journalism work in Agriculture or Liberal Arts and Sciences, the student then transfers to the College of Journalism and Communications for two years of professional training. If the first two years are taken in the College of Agriculture, the student will find it advantageous to include in his program those agriculture courses from the above listing which are open to freshmen and sophomores. The remaining agriculture requirements may be completed during the junior and senior years. Since some of the required and recommended agriculture courses have prerequisites of basic science courses (Botany 100, Chemistry 101, 102, or 111, or Geology 105), it is advisable to elect these courses during the first two years also.



Section on Statistics

1917-1918

1918-1919

1919-1920

1920-1921

1921-1922

1922-1923

Section on Statistics

1923-1924

1924-1925

1925-1926

1926-1927

1927-1928

1928-1929

1929-1930

Section on Statistics

1930-1931

Section on Statistics

Section on Statistics

1931-1932

1932-1933

1933-1934

1934-1935

Section on Statistics

1935-1936

1936-1937

1937-1938

Section on Statistics

1938-1939

1939-1940

1940-1941

1941-1942

1942

1943-1944

1944-1945

1945-1946

1946-1947

1947-1948

1948-1949

1949-1950

1950-1951

1951-1952

1952-1953

1953-1954

1954-1955

1955-1956

1956-1957

1957-1958

**General Curriculum With Major in AGRICULTURAL COMMUNICATIONS Option**  
**(for degree of B. S. in Agriculture)**

**COLLEGE OF AGRICULTURE**  
**Office of the Associate Dean**

**NAME** \_\_\_\_\_  
**DATE** \_\_\_\_\_

<b>AGRICULTURE PRESCRIBED:</b>		<b>HOURS</b>	<b>GRADE</b>	<b>AGRICULTURE ELECTIVES:</b> Must include 6 hrs. at the 200-300 level in addition to those prescribed. Total Agr. prescribed and elective must equal at least 50 hours.		
Agr. 100		0				
Agr. 114		3				
Agr. 214		3				
Agr. Econ. 220		3				
Agr. Econ. 230 or Agr. Econ. 305		3				At least 25 hrs. Agr. must be completed in residence
Agron. 121		4				Transfer:
Agron. 201		5				Residence:
An. Sci. 102 or Da. Sci. 102		3				Earned:
Rur. Soc. 117		3				To be earned:
<b>8 HOURS FROM:</b>						
Agr. Econ. 100		3				
Agr. Eng. 100		3				
An. Sci. 100		3				
Da. Sci. 100		3				
Forestry 100		3				
Hort. 100		3				
Agron. 110, An. Sci. 110, Da. Sci. 110, or Hort. 110		3				
<b>NON-AGRICULTURE PRESCRIBED:</b>				<b>ADVERTISING OPTION:</b> Adv. 281, 382, 383, 384, and 8 hrs. electives in Col. of Journ. & Comm.		
Botany 100		4		<b>NEWS-EDITORIAL OPTION:</b> Journ. 204, 211, 212, 321, 323, or 326 or Radio-TV 365, and 5 hrs. electives in Col. of Journ. & Comm.		
Chem. 101, 102, or 111		3-5		<b>RADIO-TV OPTION:</b> Journ. 211, Radio-TV 252, 261, and 12 hrs. electives in Col. of Journ. & Comm., including at least 6 hrs. of Radio-TV courses in addition to 252 and 261.		
Chem. 132 or 133		3-5				Earned:
Econ. 108		3				To be earned:
Geology 105		4		<b>HUMANITIES AND SOCIAL SCIENCES:</b> 12 hours from anthro., art, econ., fin., for. lang., geog., hist., land. arch., lit., music., phil., pol. sci., psych., religion, soc., & speech, including:		
Math. Placement Test or Math. 111, 112, or 104		3-5		D.G.S. 171 or Psych. 100	4	Earned:
Rhetoric 101		3		Pol. Sci. 150	3	To be earned:
Rhetoric 102		3				
Speech 101		3				
Zoology 104		4				
Mil.-Mil.		1-1		<b>OPEN ELECTIVES:</b>		
Mil.-Mil.		1-1				
P.E.-P.E.		(1-1)				
P.E.-P.E.		(1-1)				<b>TOTAL HOURS</b>

126 hours, including military and excluding P.E., are required for the degree as outlined above. Minimum average of 3.0 is required for graduation. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at the University of Illinois and a combined average of 3.0 for transfer and University of Illinois work.







## General Curriculum in Agriculture, cont.

## MAJOR IN AGRICULTURAL ECONOMICS--FARM MANAGEMENT OPTION

This option is designed particularly for persons interested in farming or in managing agricultural properties for others. It is also appropriate for men interested in agricultural positions with banks, credit agencies, and other agricultural institutions.

For core requirements see page 12. Other courses required for this option are:

<u>Prescribed Courses in Agriculture</u>	<u>Semester</u>	<u>Hours</u>
Agr. Economics 100 <sup>1</sup> --Introd. Agricultural Economics (I,II)		3
An. Sci. or Da. Sci. 102--Feeds and Feeding (I,II)		3
Agronomy 201--Soils (I,II)		5
Agr. Economics 220--Farm Management (I,II)		3
Agr. Economics 324--Farm Operation (II)		3
Agr. Economics 325--Advanced Farm Management (I)		3
Additional Agricultural Economics		8

Elective courses in Agriculture to bring total Agriculture to a minimum of fifty hours

Humanities and Social Sciences (see page 13 for definition) 12

Must include:

Economics 109--Principles of Economics I, II 3

Open Electives to Bring Total Hours to: 126

Suggested Agriculture Electives

Agricultural Economics 230, 302, 303, 305, 312, 341, 342

Agricultural Engineering 252, 272

Agronomy 301, 306

Animal or Dairy Science (one or more courses)

Entomology 101

Rural Sociology 117 (students with credit in Soc. 100 may wish to substitute Rural Soc. 277, 317, or 377)

Suggested Non-Agriculture Electives

Accountancy 201

Economics 170

Geography 105

History 152

Mathematics 114

Philosophy 101, 102

Political Science 150

Psychology 100, 255

Rhetoric 151

<sup>1</sup>/ Juniors or seniors should substitute Agr. Econ. 230.

GENERAL INFORMATION ON THE PROJECT

This report is prepared for the purpose of providing information on the project to the interested parties. It is intended to be a general overview of the project and its objectives, and is not intended to be a detailed technical report.

The project is a research project in the field of [illegible] and is being carried out by [illegible]. The project is funded by [illegible] and is expected to be completed by [illegible].

- Objectives of the Project**
- (i) To determine the [illegible] of the [illegible] in the [illegible] area.
  - (ii) To determine the [illegible] of the [illegible] in the [illegible] area.
  - (iii) To determine the [illegible] of the [illegible] in the [illegible] area.
  - (iv) To determine the [illegible] of the [illegible] in the [illegible] area.
  - (v) To determine the [illegible] of the [illegible] in the [illegible] area.

The project is a research project in the field of [illegible] and is being carried out by [illegible]. The project is funded by [illegible] and is expected to be completed by [illegible].

Methodology of the Project

(i) [illegible]

Results of the Project

The results of the project are as follows:

- (i) [illegible]
- (ii) [illegible]
- (iii) [illegible]
- (iv) [illegible]
- (v) [illegible]

The results of the project are as follows:

- (i) [illegible]
- (ii) [illegible]
- (iii) [illegible]
- (iv) [illegible]
- (v) [illegible]

The results of the project are as follows:

- (i) [illegible]
- (ii) [illegible]
- (iii) [illegible]
- (iv) [illegible]
- (v) [illegible]

The results of the project are as follows:

- (i) [illegible]
- (ii) [illegible]
- (iii) [illegible]
- (iv) [illegible]
- (v) [illegible]

Conclusions of the Project

The conclusions of the project are as follows:

(i) [illegible]

(ii) [illegible]

(iii) [illegible]

(iv) [illegible]

(v) [illegible]

(vi) [illegible]

(vii) [illegible]

(viii) [illegible]

(ix) [illegible]

(x) [illegible]

DATE \_\_\_\_\_

126 hours, including military and excluding P.E., are required for the degree as outlined above. Minimum average of 3.0 is required for graduation. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at U. of I. and a combined average of 3.0 for transfer and U. of I. work.





## MAJOR IN AGRICULTURAL ECONOMICS--AGRICULTURAL MARKETING OPTION

Students interested in marketing farm products and farm supplies may major under this option. Numerous opportunities exist for agricultural college graduates in salesmanship, in price analysis, and in the management and operational phases of agricultural and related businesses.

For common core requirements see page 12. Other courses required for this option are:

<u>Prescribed Courses in Agriculture</u>	<u>Semester</u>	<u>Hours</u>
Agr. Economics 100 <sup>1</sup> --Intro. Agricultural Economics (I,II)		3
Agr. Economics 230--Marketing of Agricultural Products (I,II)		3
Six hours from the following:		
Agr. Econ. 238--Distribution of Farm Supplies (II)		3
Agr. Economics 331--Grain Marketing (I)		3
Agr. Economics 332--Livestock Marketing (II)		3
Agr. Economics 334--Marketing Dairy Products (II)		3
Agr. Economics 335--Economics of Food Distribution (I)		3
Additional Agricultural Economics		8
Elective courses in Agriculture to bring total Agriculture to a minimum of fifty hours		

<u>Humanities and Social Sciences</u> (see page 13 for definition)	12
--	----

Must include:

Economics 109--Principles of Economics (I,II)	3
Economics 170--Elements of Statistics (I,II)	3
Economics 313--Economics of Consumption (II)	3

Non-Agriculture Prescribed

Accountancy 201--Fundamentals of Accounting (I,II)	3
Rhetoric 151--Business Letter Writing (I,II)	3

<u>Open Electives to Bring Total Hours to:</u>	126
--	-----

Suggested Agriculture Electives

Agricultural Economics 220, 305, 341, 342
Agronomy 306, 321
Animal Science or Dairy Science (one or more courses)
Food Technology 260 or Animal Science 104
Horticulture 242 or 262
Rural Sociology 117 <sup>2</sup> or 297

Suggested Non-Agriculture Electives

Geography 105
Marketing 211

<sup>1</sup>/ Juniors and seniors should substitute Agr. Econ. 220 for Agr. Econ. 100.

<sup>2</sup>/ Students with credit in Soc. 100 may take Rural Soc. 277, 317, or 377 instead of Rural Soc. 117.

NOTES TO THE BUYER

It is the policy of the Company to sell its products and services on a cash basis. Payment for goods and services is due at the time of delivery. The Company does not extend credit to its customers and does not accept promissory notes or other negotiable instruments.

For terms and conditions of sale, see page 11. When making payment, please refer to the invoice number.

Invoice Number	Description of Goods		Quantity	Unit Price	Total Price
	Item Name	Item Description			
1001	1001	1001	1001	1001	1001
1002	1002	1002	1002	1002	1002
1003	1003	1003	1003	1003	1003
1004	1004	1004	1004	1004	1004
1005	1005	1005	1005	1005	1005
1006	1006	1006	1006	1006	1006
1007	1007	1007	1007	1007	1007
1008	1008	1008	1008	1008	1008
1009	1009	1009	1009	1009	1009
1010	1010	1010	1010	1010	1010
1011	1011	1011	1011	1011	1011
1012	1012	1012	1012	1012	1012
1013	1013	1013	1013	1013	1013
1014	1014	1014	1014	1014	1014
1015	1015	1015	1015	1015	1015
1016	1016	1016	1016	1016	1016
1017	1017	1017	1017	1017	1017
1018	1018	1018	1018	1018	1018
1019	1019	1019	1019	1019	1019
1020	1020	1020	1020	1020	1020
1021	1021	1021	1021	1021	1021
1022	1022	1022	1022	1022	1022
1023	1023	1023	1023	1023	1023
1024	1024	1024	1024	1024	1024
1025	1025	1025	1025	1025	1025
1026	1026	1026	1026	1026	1026
1027	1027	1027	1027	1027	1027
1028	1028	1028	1028	1028	1028
1029	1029	1029	1029	1029	1029
1030	1030	1030	1030	1030	1030
1031	1031	1031	1031	1031	1031
1032	1032	1032	1032	1032	1032
1033	1033	1033	1033	1033	1033
1034	1034	1034	1034	1034	1034
1035	1035	1035	1035	1035	1035
1036	1036	1036	1036	1036	1036
1037	1037	1037	1037	1037	1037
1038	1038	1038	1038	1038	1038
1039	1039	1039	1039	1039	1039
1040	1040	1040	1040	1040	1040
1041	1041	1041	1041	1041	1041
1042	1042	1042	1042	1042	1042
1043	1043	1043	1043	1043	1043
1044	1044	1044	1044	1044	1044
1045	1045	1045	1045	1045	1045
1046	1046	1046	1046	1046	1046
1047	1047	1047	1047	1047	1047
1048	1048	1048	1048	1048	1048
1049	1049	1049	1049	1049	1049
1050	1050	1050	1050	1050	1050
1051	1051	1051	1051	1051	1051
1052	1052	1052	1052	1052	1052
1053	1053	1053	1053	1053	1053
1054	1054	1054	1054	1054	1054
1055	1055	1055	1055	1055	1055
1056	1056	1056	1056	1056	1056
1057	1057	1057	1057	1057	1057
1058	1058	1058	1058	1058	1058
1059	1059	1059	1059	1059	1059
1060	1060	1060	1060	1060	1060
1061	1061	1061	1061	1061	1061
1062	1062	1062	1062	1062	1062
1063	1063	1063	1063	1063	1063
1064	1064	1064	1064	1064	1064
1065	1065	1065	1065	1065	1065
1066	1066	1066	1066	1066	1066
1067	1067	1067	1067	1067	1067
1068	1068	1068	1068	1068	1068
1069	1069	1069	1069	1069	1069
1070	1070	1070	1070	1070	1070
1071	1071	1071	1071	1071	1071
1072	1072	1072	1072	1072	1072
1073	1073	1073	1073	1073	1073
1074	1074	1074	1074	1074	1074
1075	1075	1075	1075	1075	1075
1076	1076	1076	1076	1076	1076
1077	1077	1077	1077	1077	1077
1078	1078	1078	1078	1078	1078
1079	1079	1079	1079	1079	1079
1080	1080	1080	1080	1080	1080
1081	1081	1081	1081	1081	1081
1082	1082	1082	1082	1082	1082
1083	1083	1083	1083	1083	1083
1084	1084	1084	1084	1084	1084
1085	1085	1085	1085	1085	1085
1086	1086	1086	1086	1086	1086
1087	1087	1087	1087	1087	1087
1088	1088	1088	1088	1088	1088
1089	1089	1089	1089	1089	1089
1090	1090	1090	1090	1090	1090
1091	1091	1091	1091	1091	1091
1092	1092	1092	1092	1092	1092
1093	1093	1093	1093	1093	1093
1094	1094	1094	1094	1094	1094
1095	1095	1095	1095	1095	1095
1096	1096	1096	1096	1096	1096
1097	1097	1097	1097	1097	1097
1098	1098	1098	1098	1098	1098
1099	1099	1099	1099	1099	1099
1100	1100	1100	1100	1100	1100

11. Payment terms and conditions. 12. Delivery terms and conditions. 13. Warranty terms and conditions. 14. Dispute resolution. 15. General provisions.



General Curriculum with Major in AGRICULTURAL ECONOMICS  
Agricultural Marketing Option  
(for degree of B.S. in Agriculture)

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_

DATE \_\_\_\_\_

AGRICULTURE PRESCRIBED:	HOURS	GRADE	6 HOURS FROM: Agr. Econ. 238; 331; 332; 334; 335			
Agr. 100	0					
Agr. Econ. 100	3					
Agr. Econ. 230	3					
12 HOURS FROM:			8 HOURS OF AGR. ECON. ELECTIVES			
Agr. Eng. 100	3		(Total Agr. Econ. must equal 20 hours.)			
Agron. 121	4					
An. Sci. 100	3					
An. Sci. 102 or	3					
Da. Sci. 102						
Da. Sci. 100	3		AGRICULTURE ELECTIVES--Total			At least 25
Forestry 100	3		Agr. prescribed and electives			hours of Agr.
Hort. 100	3		must equal at least 50 hours.			must be com-
Agron. 110, An. Sci. 110,	3					pleted in
Da. Sci. 110, or Hort. 110						residence.
NON-AGRICULTURE PRESCRIBED:						Transfer:
Accy. 201	3					Residence:
Botany 100	4					Earned:
Chem. 101, 102, or 111	3-5					To be
Chem. 132 or 133	3-5					earned:
Econ. 108	3		HUMANITIES AND SOCIAL SCIENCES--12 hours			
Geology 105	4		from: anthro., art, econ., finance, for.			
Math. Placement Test or			lang., geog., hist., land. arch, lit., music,			
Math 111, 112, or 104	3-5		phil., pol. sci., psych., religion, soc.,			
			and speech.			
Rhetoric 101	3		MUST INCLUDE:			Earned:
Rhetoric 102	3		Econ. 109	3		To be
			Econ. 170	3		earned:
			Econ. 313	3		
Rhet. 151	3		OPEN ELECTIVES:			
Speech 101	3					TOTAL HOURS
Zoology 104	4					
Mil.-Mil.	1-1					
Mil.-Mil.	1-1					
P.E.-P.E.	(1-1)					
P.E.-P.E.	(1-1)					

126 hours, including military and excluding P.E., are required for the degree as outlined above. Minimum average of 3.0 is required for graduation. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at U. of I. and a combined average of 3.0 for transfer and U. of I. work.

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED  
DATE 08-01-2001 BY 60322 UCBAW

THE UNIVERSITY OF CHICAGO

[illegible]



## MAJOR IN AGRICULTURAL ECONOMICS--GENERAL OPTION

This option is designed for students who desire training in agricultural economics without specializing in any particular subject-matter area. It is also appropriate as preparation for analytical and statistical work with agricultural businesses or public agencies.

For core requirements see page 12. Other courses required for this option are:

<u>Prescribed courses in Agriculture</u>	<u>Semester</u>	<u>Hours</u>
Agr. Economics 100 <sup>1/</sup> --Introductory Agricultural Economics (I,II)		3
Nine hours from the following:		
Rural Soc. 117--Introduction to Rural Sociology (I,II)		3
Agr. Economics 218--Land Economics (I)		3
Agr. Economics 220--Farm Management (I,II)		3
Agr. Economics 230--Marketing of Agricultural Products (I,II)		3
Agr. Economics 302--Financing Agriculture (II)		3
Agr. Economics 303--Agricultural Law (I,II)		3
Agr. Economics 305--Agricultural Development and Policies (I)		3
Agr. Economics 341--Agricultural Statistics (I)		3
Additional Agricultural Economics		8
Elective courses in Agr. to bring total Agr. to a minimum of 50 hours		
<u>Humanities and Social Sciences</u> (see page 13 for definition)		12
Must include:		
Economics 109--Principles of Economics (I, II)		3
Pol. Sci. 150--American Government: Organization and Powers (I, II)		3
One of the following:		
Philos. 101--Introduction to Philosophy (I, II)		3
Philos. 102--Logic (I, II)		3
Philos. 104--Philosophy of Democracy (II)		4
<u>Non-Agriculture Prescribed</u>		
Accy. 201--Fundamentals of Accounting (I, II)		3
Math. 114 <sup>2/</sup> --Plane Trigonometry (I, II)		2
<u>Open Electives to Bring Total Hours to:</u>		126

Suggested Agriculture Electives

Agricultural Economics 312, 324, 325, 342  
 Agricultural Economics--one or more commodity marketing courses  
 Agricultural Engineering 131  
 Agriculture 114  
 Agronomy 201, 306  
 Animal Science or Dairy Science (one or more courses)  
 Rural Sociology 277

Suggested Non-Agriculture Electives

Economics 214  
 Psychology 100  
 Rhetoric 151  
 Speech 113

<sup>1/</sup> Juniors and seniors should substitute Agr. Econ. 220 or 230.

<sup>2/</sup> Students in this option who do not pass the Mathematics Placement Test should take Math. 111 or 112, but not 104.





General Curriculum with Major in AGRICULTURAL ECONOMICS  
General Option  
(for degree of B.S. in Agriculture)

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_  
DATE \_\_\_\_\_

AGRICULTURE PRESCRIBED:		GRADE	9 HOURS FROM: Rural Soc. 117, Agr. Econ. 218, 220, 230, 302, 303, 305, 341.		
Agr. 100	0				
Agr. Econ. 100	3				
12 HOURS FROM:					
Agr. Eng. 100	3				
Agron. 121	4				
An. Sci. 100	3		8 HOURS OF AGR. ECON. ELECTIVES (Total Agr.Econ.must equal 20 hrs.)		At least 25 hours of Agr. must be completed in residence.
An. Sci. 102 or Da. Sci. 102	3				
Da. Sci. 100	3				
Forestry 100	3				
Hort. 100	3				
Agron.110, An. Sci. 110, Da. Sci. 110, or Hort.110	3		AGRICULTURE ELECTIVES--Total Agr. prescribed and electives must equal at least 50 hours.		Transfer:
					Residence:
NON-AGRICULTURE PRESCRIBED:					
Accy. 201	3				Earned:
Botany 100	4				To be earned:
Chem. 101, 102, or 111	3-5				
Chem. 132 or 133	3-5		HUMANITIES AND SOCIAL SCIENCES--12 hours from anthro., art, econ., fin., for. lang., geog., hist. land. arch., lit., music, phil., pol. sci., psych., religion, soc., and speech.		
Econ. 108	3				
Geology 105	4		MUST INCLUDE: Econ. 109 3 Pol. Sci. 150 3 Philos. 101, 102, or 104 3-4		Earned:
Math. Placement Test or Math. 111 or 112	3-5				To be earned:
Math. 114	2				
Rhetoric 101	3				
Rhetoric 102	3				
			OPEN ELECTIVES:		
Speech 101	3				TOTAL HOURS
Zoology 104	4				
Mil.-Mil.	1-1				
Mil.-Mil.	1-1				
P.E.-P.E.	(1-1)				
P.E.-P.E.	(1-1)				

126 hours, including military and excluding P.E., are required for the degree as outlined above. Minimum average of 3.0 is required for graduation. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at U. of I. and a combined average of 3.0 for transfer and U. of I work.





## MAJOR IN AGRICULTURAL ECONOMICS--RURAL SOCIOLOGY OPTION

The rural sociology option is designed primarily to prepare students for effective rural group leadership in a variety of organizations and agencies serving agriculture and rural communities.

For core requirements see page 12. Other courses required for this option are:

<u>Prescribed Courses in Agriculture</u>	<u>Semester</u>	<u>Hours</u>
Agr. Econ. 100 <sup>1/</sup> -Introductory Agricultural Economics (I, II)		3
Rural Soc. 117 <sup>2/</sup> --Introd. to Rural Sociology (I, II)		3
Rural Soc. 277--Rural Social Problems (II)		3
Rural Soc. 297--Farmer Movements, Farmers' Organizations and Social Policy (I)		3
Additional Rural Sociology or Agricultural Economics		8

Elective courses in Agriculture to bring total Agriculture to a minimum of fifty hours.

Humanities and Social Sciences (see page 13 for definition) 12

Must include:

Economics 109--Principles of Economics (I, II)	3
Sociology chosen from 200 or 300 level courses	6

Open Electives to Bring Total Hours to: 126

Suggested Agriculture Electives

Agricultural Economics 218, 220, 230, 273, 303, 305, 312, 341, 342  
 Agriculture 114  
 Agronomy 321  
 Animal Science or Dairy Science (one or more courses)

Suggested Non-Agriculture Electives

Anthropology 103  
 Economics 214, 300, 336  
 Education 315  
 Geography 104  
 Philosophy 101  
 Pol. Sci. 150  
 Psychology 100, 255  
 Sociology 212, 220, 270  
 Speech 113

<sup>1/</sup> Juniors and seniors should substitute Agr. Econ. 220 or 230.

<sup>2/</sup> Students with credit in Sociol. 100 should substitute Rural Sociol. 317 or 377.



General Curriculum with Major in AGRICULTURAL ECONOMICS  
Rural Sociology Option  
(for degree of B.S. in Agriculture)

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_

DATE \_\_\_\_\_

AGRICULTURE PRESCRIBED:	HOURS	GRADE	8 HOURS OF RUR. SOC. OR AGR. ECON. ELECTIVES (Total Agr. Econ. must equal 20 hours)		
Agr. 100	0				
Agr. Econ. 100	3				
Rur. Soc. 117	3				
Rur. Soc. 277	3				
Rur. Soc. 297	3				
12 HOURS FROM:			AGRICULTURE ELECTIVES--Total Agr. prescribed and electives must equal at least 50 hours		At least 25 hours of Agr. must be com- pleted in residence.
Agr. Eng. 100	3				
Agron. 121	4				
An. Sci. 100	3				
An. Sci. 102 or Da. Sci. 102	3				Transfer:
Da. Sci. 100	3				Residence:
Forestry 100	3				
Hort. 100	3				
Agron. 110, An. Sci. 110, Da. Sci. 110, or Hort. 110	3				Earned:
NON-AGRICULTURE PRESCRIBED:					To be earned:
Botany 100	4				
Chem. 101, 102, or 111	3-5				
Chem. 132 or 133	3-5		HUMANITIES AND SOCIAL SCIENCES--12 hours from: anthro., art, econ., fin., for. lang., geog., hist., land. arch., lit., music, phil., pol. sci., psych., religion, soc., and speech. MUST INCLUDE:		
Econ. 108	3		Econ. 109	3	Earned:
Geology 105	4		Six hours of Soc. at 200 or 300 level	6	To be earned:
Math. Placement Test or Math. 111, 112, or 104	3-5				
Rhetoric 101	3				
Rhetoric 102	3				
			OPEN ELECTIVES		
Speech 101	3				TOTAL HOURS
Zoology 104	4				
Nil.-Mil.	1-1				
Nil.-Mil.	1-1				
P.E.-P.E.	(1-1)				
P.E.-P.E.	(1-1)				

26 hours, including military and excluding P.E., are required for the degree as outlined above. Minimum average of 3.0 is required for graduation. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at U. of I. and a combined average of 3.0 for transfer and U. of I. work.



7-10-68  
[Illegible]  
[Illegible]

## MAJOR IN AGRICULTURAL MECHANIZATION

For students who are interested in non-technical emphasis in the areas of farm structures, conservation, farm power and farm machinery, in preparation for work with service organizations, retail dealers, power suppliers, contractors, farm management companies, or as farm operators. This major is administered in the College of Agriculture by the Department of Agricultural Engineering. Students interested in a program leading to a degree in Agricultural Engineering should follow the four-year program in the College of Engineering or the five-year combined program in Agricultural Science and Agricultural Engineering administered jointly by the College of Agriculture and the College of Engineering (see page 44).

For common core requirements of this major see page 12. Other courses required for this major are:

<u>Prescribed Courses in Agriculture</u>	<u>Semester</u>	<u>Hours</u>
Agr. Eng. 100--Engineering Applications in Agriculture (I, II)		3
Agr. Economics 220--Farm Management (I, II)		3
Agronomy 201--Soils (I, II)		5
Fifteen hours from the following:		
Agr. Eng. 131--Field and Power-Driven Machinery (I)		3
Agr. Eng. 142--Gas Engines and Tractors (II)		3
Agr. Eng. 200--Farm Shop: Carpentry and Construction (I, II)		3
Agr. Eng. 242--Gasoline, Liquefied Petroleum Gas, and Diesel Tractors (I)		3
Agr. Eng. 252--Mechanics of Soil and Water Conservation (II)		3
Agr. Eng. 272--Farm Buildings (II)		3
Agr. Eng. 281--Electric Power for the Farm (I)		3
Agr. Eng. 300--Special Problems (I, II)		3
Agr. Eng. 361--Development and Function of Family Housing (II)		3
Agr. Eng. 381--Farm Electrical Equipment (II)		3

Elective courses in Agriculture to bring total Agriculture to a minimum of fifty hours.

<u>Humanities and Social Sciences</u> (see page 13 for definition)	12
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Prescribed Non-Agriculture Courses

Fifteen hours from the following:

Accountancy 201--Fundamentals of Accounting (I, II)	3
Business Law 261--Summary of Business Law (I, II)	3
Management 101--Industrial Organization and Management (I, II)	3
Management 248--Personnel Administration (I, II)	3
Marketing 101--Principles of Marketing (I, II)	3
Marketing 211--Principles of Retailing (I, II)	3
Marketing 212--Retail Sales Promotion (I, II)	2
Marketing 271--Salesmanship (I, II)	2
Rhetoric 151--Business Letter Writing (I, II)	3
Rhetoric 271--Sales Writing (Journ. 288, Mktg. 288) (I, II)	2

<u>Open Electives to Bring Total Hours to:</u>	126
--	-----

Recommended Agriculture Electives

Agr. Econ. 302, 303, 312, 324, 325, 341, 342
Agronomy 305, 306, 307, 311



Statement of Affairs

The statement of affairs is prepared in accordance with the provisions of the Companies Act, 1947, and is intended to provide information to the members of the company regarding the financial position of the company at the end of the financial year. The statement is prepared in accordance with the provisions of the Companies Act, 1947, and is intended to provide information to the members of the company regarding the financial position of the company at the end of the financial year. The statement is prepared in accordance with the provisions of the Companies Act, 1947, and is intended to provide information to the members of the company regarding the financial position of the company at the end of the financial year.

Particulars	Amount
Capital	100,000
Reserves	20,000
Assets	120,000
Liabilities	120,000
Total	120,000

The statement of affairs is prepared in accordance with the provisions of the Companies Act, 1947, and is intended to provide information to the members of the company regarding the financial position of the company at the end of the financial year.

Statement of Affairs

Particulars	Amount
Capital	100,000
Reserves	20,000
Assets	120,000
Liabilities	120,000
Total	120,000

Statement of Affairs

Particulars	Amount
Capital	100,000
Reserves	20,000
Assets	120,000
Liabilities	120,000
Total	120,000



General Curriculum with Major in AGRICULTURAL MECHANIZATION  
(for degree of B.S. in Agriculture)

27.

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_

DATE \_\_\_\_\_

AGRICULTURE PRESCRIBED:		HOURS	GRADE	15 HOURS FROM: Agr. Eng. 131, 142, 200, 242, 252, 272, 281, 300, 361, 381		
Agr. 100		0				
Agr. Econ. 220		3				
Agr. Eng. 100		3				
Agron. 201		5				
12 HOURS FROM:						
Agr. Econ. 100		3				At least 25 hours of Agr. must be completed in residence.
Agron. 121		4				
An. Sci. 100		3				
An. Sci. 102 or Da. Sci. 102		3				
Da. Sci. 100		3		AGRICULTURE ELECTIVE--Total Agr. prescribed and electives must equal at least 50 hours.		
Forestry 100		3				Transfer:
Hort. 100		3				Residence:
Agron. 110, An. Sci. 110, Da. Sci. 110, or Hort. 110		3				Earned:
						To be earned:
NON-AGRICULTURE PRESCRIBED:				15 HOURS FROM: Accy. 201; Bus. Law 261, Mgmt. 101, 248; Mktg. 101, 211, 212, 271; Rhet. 151, 271:		
Botany 100		4				
Chem. 101, 102, or 111		3-5				
Chem. 132 or 133		3-5				Earned:
Econ. 108		3				To be earned:
Geology 105		4				
Math. Placement Test or Math. 111, 112, or 104		3-5				
Rhetoric 101		3		HUMANITIES AND SOCIAL SCIENCES--12 hours from: anthro., art, econ., fin., for. lang, geog., hist., land. arch., lit., music, phil., pol. sci., psych., religion, soc., and speech.		
Rhetoric 102		3				Earned:
						To be earned:
Speech 101		3				
Zoology 104		4		OPEN ELECTIVES:		
Mil.-Mil.		1-1				TOTAL HOURS
Mil.-Mil.		1-1				
P.E.-P.E.		(1-1)				
P.E.-P.E.		(1-1)				

126 hours, including military and excluding P.E., are required for the degree as outlined above. Minimum average of 3.0 is required for graduation. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at U. of I. and a combined average of 3.0 for transfer and University of Illinois work.



## General Curriculum in Agriculture, cont.

## MAJOR IN AGRONOMY--OPTIONS IN CROPS OR SOILS

This major is designed for students who wish to specialize in crops and/or soils. For those who may desire later to pursue graduate work, adequate training may be obtained by suitable choices of electives within the framework of this major, or in the agricultural science curriculum.

For common core requirements see page 12. Other courses required in this major are:

<u>Prescribed Courses in Agriculture</u>	<u>Semester</u>	<u>Hours</u>
Agronomy 121--Crop Production (I, II)		4
Agronomy 110 <sup>1</sup> --Plant and Animal Genetics (I, II)		3
Agronomy 201--Soils (I, II)		5
Agronomy 204 <sup>1</sup> --Introductory Plant Pathology (II)		3
Agronomy 302--Role of Microorganisms in Soil Fertility (I)		3
Agronomy 311--Physical Edaphology (II)		3
Agronomy 321--Crop Ecology (I)		3
Agronomy electives (all Agronomy majors must complete twenty hours of Agronomy in addition to Agronomy 121 and 201)		5 to 11

Elective courses in Agriculture to bring total Agriculture to a minimum of fifty hours.

<u>Humanities and Social Sciences</u> (see page 13 for definition)	12
Must include <u>one</u> of the following:	
History 152--History of the United States, 1865 to Present (I, II)	4-3
or Pol. Sci. 150--American Government: Organization and Powers (I, II)	3

<u>Open Electives to Bring Total Hours to:</u>	126
--	-----

Suggested Agriculture Electives

Agronomy courses other than those listed or taken to satisfy the requirements

Agriculture 216

Agricultural Economics 220, 325, 303

Agricultural Engineering 252

Animal Science 201

Suggested Non-Agriculture Electives

Botany 130, 160, 226, 304, 320

Chemistry 105, 122, 354, or 350 and 355

English 304

Mathematics 117<sup>1</sup>/, 127<sup>2</sup>/

Physics 101, 102

<sup>1</sup>/ Agronomy 110 and 204 are required in the crops option only.

<sup>2</sup>/ Students who have completed Mathematics 111 or 112 or their equivalent should take Mathematics 114, 122, and 132 rather than Mathematics 117 and 127



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 (II) [illegible]  
 (III) [illegible]  
 (IV) [illegible]  
 (V) [illegible]

of which the first is a copy of the original and the second is a copy of the original.

1940

General Curriculum with Major in AGRONOMY  
Agronomy, Crops, or Soils Option \_\_\_\_\_  
(for degree of B.S. in Agriculture)

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_  
DATE \_\_\_\_\_

AGRICULTURE PRESCRIBED:	HOURS	GRADE	OTHER AGRONOMY COURSES--5 hours for Crops option; 11 hours for Soils option; Agron. credits must total 20 hrs. exclusive of Agron. 121 and 201.		
Agr. 100	0				
*Agron. 110	3				
Agron. 121	4				
Agron. 201	5				
*Agron. 204	3				
Agron. 302	3				
Agron. 311	3				
Agron. 321	3				
*Required in Crops Option Only					
11 HOURS FROM:			AGRICULTURE ELECTIVES--Total	At least 25	
Agr. Econ. 100	3		Agr. prescribed and electives	hours of Agr.	
Agr. Eng. 100	3		must equal at least 50 hours.	must be com-	
Agron. 110	3			pleted in	
An. Sci. 100	3			residence.	
An. Sci. 102 or	3			Transfer:	
Da. Sci. 102	3			Residence:	
Da. Sci. 100	3			Earned:	
Forestry 100	3			To be	
Hort. 100	3			earned:	
NON-AGRICULTURE PRESCRIBED:					
Botany 100	4				
Chem. 101, 102, or 111	3-5		HUMANITIES AND SOCIAL SCIENCES--12 hours	from anthro, art, econ, fin, for. lang.,	
Chem. 132 or 133	3-5			geog., hist., land. arch., lit., music,	
Econ. 108	3			phil., pol. sci., psych., religion, soc.,	
Geology 105	4			and speech.	
Math. Placement Test or			MUST INCLUDE:		
Math. 111, 112, or 104	3-5		Hist. 152 or	4	
			Pol. Sci. 150	3	
Rhetoric 101	3				Earned:
Rhetoric 102	3				To be
			OPEN ELECTIVES:		earned:
Speech 101	3				
Zoology 104	4				TOTAL HOURS
Mil.-Mil.	1-1				
Mil.-Mil.	1-1				
P.E.-P.E.	(1-1)				
P.E.-P.E.	(1-1)				

126 hours, including military and excluding P.E., are required for the degree as outlined above. Minimum average of 3.0 is required for graduation. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at U. of I. and a combined average of 3.0 for transfer and U. of I. work.

Il nome di questo libro è "L'arte di vivere".  
L'arte di vivere è un'arte che si impara con la pratica.  
L'arte di vivere è un'arte che si impara con la riflessione.



## MAJOR IN ANIMAL SCIENCE

For students interested in preparing for work in the fields of animal feeding and nutrition, animal breeding and genetics, animal production, or related fields of the livestock and poultry industry.

For common core requirements see page 12. Other courses required for this major are:

<u>Prescribed Courses in Agriculture</u>	<u>Semester</u>	<u>Hours</u>
Animal Science 100--Introduction to Animal Science (I, II)		3
Animal Science 102--Feeds and Feeding (I, II)		3
Animal Science 110--Plant and Animal Genetics (I, II)		3
Agronomy 201--Soils (I, II)		5
Animal Science 204--Evaluation, Slaughtering and Processing of Meat Animals (II)		3
Animal Science 305--Genetics and Animal Improvement (II)		3
Animal Science 332--Livestock Marketing (II)		3
Animal Nutrition 301--Introduction to Animal Nutrition (I)		3
Two of the following:		
Animal Science 206--Light Horses (II)		3
Animal Science 301--Beef Production (I, II)		3
Animal Science 302--Sheep Production (II)		3 or 4
Animal Science 303--Pork Production (I, II)		3
Animal Science 304--Poultry Management (II)		3 or 4

Elective courses in Agriculture to bring total Agriculture to a minimum of fifty hours

<u>Humanities and Social Sciences</u> (see page 13 for definition)	12
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Prescribed Non-Agriculture Courses

Veterinary Pathology and Hygiene 105--Animal Hygiene (I)	3
Vet. Phys. and Pharm. 202--Physiology of Domestic Animals (I)	3

<u>Open Electives to Bring Total Hours to:</u>	126
--	-----

Recommended Agriculture Electives

Animal Science courses other than those listed or taken to satisfy the requirements.

Agricultural Economics 220, 303

Agriculture 114, 216

Agronomy 322

Dairy Science 330, 381

Entomology 101

Recommended Non-Agriculture Electives

Chemistry 105, 122, 350, and 355

Mathematics 114, 122 or 123, and 132 or 133

Microbiology 100 and 101, or 200

Physics 101 and 102

Zoology 132 and 333

1. The first group of people who are not in the labor force are those who are not in the labor force because they are not in the labor force.

**General Curriculum with Major in ANIMAL SCIENCE**  
(for degree of B.S. in Agriculture)

31.

**COLLEGE OF AGRICULTURE**  
Office of Associate Dean

**NAME** \_\_\_\_\_

**DATE** \_\_\_\_\_

AGRICULTURE PRESCRIBED:		HOURS	GRADE	TWO COURSES FROM: An. Sci. 206, 301, 302, 303, 304			
Agr. 100		0					
Agron. 201		5					
An. Nutr. 301		3					
An. Sci. 100		3					
An. Sci. 102		3					
An. Sci. 110		3					
An. Sci. 204		3					
An. Sci. 305		3					
An. Sci. 332		3					
6 HOURS FROM:							
Agr. Econ. 100		3					
Agr. Eng. 100		3					
Agron. 121		4					
Da. Sci. 100		3					
Forestry 100		3					
Hort. 100		3					
NON-AGRICULTURE PRESCRIBED:							
Botany 100		4					
Chem. 101, 102, or 111		3-5					
Chem. 132 or 133		3-5					
Econ. 108		3					
Geology 105		4					
Math. Placement Test or Math. 111, 112, or 104		3-5					
Rhetoric 101		3					
Rhetoric 102		3					
Speech 101		3					
Vet. Path. & Hyg. 105		3					
Vet. Phys. & Pharm. 202		3					
Zoology 104		4					
Mil.-Mil.		1-1					
Mil.-Mil.		1-1					
P.E.-P.E.		(1-1)					
P.E.-P.E.		(1-1)					

AGRICULTURE ELECTIVES--Total Agr. prescribed and electives must equal at least 50 hours.

At least 25 hours of Agr. must be completed in residence.

Transfer:

Residence:

Earned:

To be earned:

HUMANITIES AND SOCIAL SCIENCES--12 hours from: anthro., art, econ., fin., for. lang., geog., hist., land. arch., lit., music, phil., pol. sci., psych., religion, soc., and speech.

Earned:

To be earned:

OPEN ELECTIVES

TOTAL HOURS

126 hours, including military and excluding P.E., are required for the degree as outlined above. Minimum average of 3.0 is required for graduation. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at U. of I. and a combined average of 3.0 for transfer and University of Illinois work.





## MAJOR IN DAIRY SCIENCE

The purpose of the major in Dairy Science is to provide training for students planning careers as dairy farm operators and managers; as fieldmen for milk plants, breed associations, feed companies, and governmental agencies; as control technicians or salesmen for feed manufacturers; as laboratory and field technicians in artificial insemination; and as breeding consultants.

In addition, this major provides a foundation for advanced study in preparation for careers as college teachers, as research scientists in experiment stations and industry, and as extension specialists.

For common core requirements, see page 12. Other courses required for this major are:

<u>Prescribed Courses in Agriculture</u>	<u>Semester</u>	<u>Hours</u>
Dairy Science 100--Introduction to Dairy Production (I, II)		3
Dairy Science 102--Feeds and Feeding (I, II)		3
Dairy Science 110--Plant and Animal Genetics (I, II)		3
Dairy Science 202--Feeding Dairy Cattle (II)		3
Dairy Science 205--Dairy Cattle Management (I)		3
Agr. Economics 220--Farm Management (I, II)		3
Agronomy 201--Soils (I, II)		5
Nine hours from the following:		
Dairy Science 104--Dairy Cattle Judging (II)		2
Dairy Science 150--General Dairy Bacteriology (II)		2
Dairy Science 305--Genetics and Animal Improvement (II)		3
Dairy Science 330--Reproduction and Artificial Insemination of Farm Animals (I)		3
Dairy Science 334--Marketing Dairy Products (II)		3
Agronomy 121--Crop Production (I, II)		4
Agronomy 322--Forage Crops and Pastures (II)		3
An. Nutr. 301--Introduction to Animal Nutrition (I)		3
Entomology 101--Agricultural Entomology (I, II)		3

Elective courses in Agriculture to bring total Agriculture to a minimum of fifty hours.

Humanities and Social Sciences (see page 13 for definition) 12

Prescribed Non-Agriculture Courses

Minimum of six hours from:

Chemistry 122--Elementary Quantitative Analysis (I, II)	5
Chemistry 350--General Biochemistry (I, II)	3
Chemistry 355--Biochemistry Laboratory (I, II)	3
Mathematics (in addition to core requirements)	
Microbiology	
Physiology	
Veterinary Physiology and Pharmacology	

Open Electives to Bring Total Hours to: 126

Depending upon their interests and abilities, and in consultation with their advisers, students majoring in Dairy Science are urged to select their elective courses from the agriculture courses listed above in excess of the nine-hour requirement or from non-agricultural courses which would supplement the major program with any of the basic sciences, the communication skills, business practices and administration, social sciences, or the humanities.

THE JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION

The purpose of this journal is to provide a medium for the publication of original research, clinical observations, and other material of interest to the medical profession. It is published weekly, except during the summer months, when it is published bi-weekly. The journal is published by the American Medical Association, 535 North Dearborn Street, Chicago, Illinois. The subscription price for 1934 is \$10.00 in advance. Single copies are \$0.25. The journal is published by the American Medical Association, 535 North Dearborn Street, Chicago, Illinois. The subscription price for 1934 is \$10.00 in advance. Single copies are \$0.25.

Page	Article
1	Original Article: The Effect of Vitamin D on the Growth of the Rat (J. H. Johnson, M.D., Chicago, Ill.)
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ORIGINAL ARTICLES

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ORIGINAL ARTICLES

Original Article: The Effect of Vitamin D on the Growth of the Rat (J. H. Johnson, M.D., Chicago, Ill.)



General Curriculum with Major in DAIRY SCIENCE  
(for degree of B.S. in Agriculture)

33.

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_

DATE \_\_\_\_\_

AGRICULTURE PRESCRIBED		HOURS	GRADE	9 HOURS FROM: Da. Sci. 104, 150, 305, 311, 330, 334; Agron. 121, 322; An. Nutr. 301; Entom. 101		
Agr. 100		0				
Agr. Econ. 220		3				
Agron. 201		5				
Da. Sci. 100		3				
Da. Sci. 102		3				
Da. Sci. 110		3				
Da. Sci. 202		3				
Da. Sci. 205		3				
6 HOURS FROM:				AGRICULTURE ELECTIVES--Total Agr. prescribed and electives must equal at least 50 hours.  Transfer:  Residence:  Earned:  To be earned:		
Agr. Econ. 100		3				
Agr. Eng. 100		3				
Agron. 121		4				
An. Sci. 100		3				
Forestry 100		3				
Hort. 100		3				
NON-AGRICULTURE PRESCRIBED:				6 HOURS FROM: Bact., Chem. 122, 350, 355, Math., Mcbio., Physiol., Vet. Phys. and Pharm.  Earned:  To be earned:		
Botany 100		4				
Chem. 101, 102, or 111		3-5				
Chem. 132 or 133		3-5				
Econ. 108		3				
Geology 105		4				
Math. Placement Test or Math. 111, 112, or 104		3-5				
Rhetoric 101		3		HUMANITIES AND SOCIAL SCIENCES--12 hours from: anthro., art, econ., fin., for. lang., geog., hist., land. arch., lit., music, phil., pol. sci., psych., religion, soc., and speech.		
Rhetoric 102		3				
Speech 101		3		OPEN ELECTIVES:		
Zoology 104		4				
Mil.-Mil.		1-1		TOTAL HOURS		
Mil.-Mil.		1-1				
P.E.-P.E.		(1-1)				
P.E.-P.E.		(1-1)				

126 hours, including military and excluding P.E., are required for the degree as outlined above. Minimum average of 3.0 is required for graduation. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at U. of I. and a combined average of 3.0 for transfer and University of Illinois work.

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## MAJOR IN HORTICULTURE

For students who are interested primarily in general agriculture but desire a basic knowledge of horticulture. Emphasis is placed on the basic plant sciences to give a general background for the specialized phases of horticulture. By a careful choice of horticulture courses and electives, a student may prepare for the production of fruits, vegetables, or other specialized horticultural crops.

Students who are interested in horticultural crops for processing should enroll in the horticultural food crops curriculum; those interested in the production of flowers, in the floriculture and ornamental horticulture curriculum.

For common core requirements see page 12. Other courses required in this major are:

<u>Prescribed Courses in Agriculture</u>	<u>Semester</u>	<u>Hours</u>
Horticulture 100 <sup>1</sup> --Introductory Horticulture (I, II)		3
Horticulture 110--Plant and Animal Genetics (I, II)		3
Horticulture 221--Plant Propagation (I)		3
Agronomy 201--Soils (I, II)		5
Entomology 101--Agricultural Entomology (I, II)		3
Plant Path. 301--Plant Pathology (Bot. 301) (I)		4
Additional Horticulture courses		11

Elective courses in Agriculture to bring total Agriculture to a minimum of fifty hours

Humanities and Social Sciences (see page 13 for definition) 12

Prescribed Non-Agriculture Courses  
Botany 130--Plant Physiology (I) 5

Open Electives to Bring Total Hours to: 126

Recommended Agriculture Electives  
Agriculture 114, 216  
Agricultural Engineering 131, 252  
Agricultural Economics 303  
Agronomy 306, 311, 326  
Horticulture courses other than those listed or taken to satisfy the requirements

Recommended Non-Agriculture Courses  
Accountancy 201  
Botany 116, 160  
Landscape Architecture 251, 252  
Entomology 319  
Geography 211  
Philosophy 102  
Physics 101, 102  
Political Science 150  
Rhetoric 151

<sup>1</sup>/ Juniors and seniors should substitute Hort. 242 or 262.



1890

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2. second is the fact that the  
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8. eighth is the fact that the  
9. ninth is the fact that the  
10. tenth is the fact that the

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ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED  
DATE 01-11-2001 BY 60322 UCBAW

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

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1891

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific information required.

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General Curriculum with Major in HORTICULTURE  
(for degree of B.S. in Agriculture)

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_

DATE \_\_\_\_\_

AGRICULTURE PRESCRIBED:	HOURS	GRADE	HORTICULTURE ELECTIVES--11 hours minimum		
Agr. 100	0				
Agron. 201	5				
Entom. 101	3				
Hort. 100	3				
Hort. 110	3				
Hort. 221	3				
Plant Path. 301	4				
9 HOURS FROM:					
Agr. Econ. 100	3				At least 25
Agr. Eng. 100	3		AGRICULTURE ELECTIVES--Total Agr.		hours of Agr.
Agron. 121	4		prescribed and electives must		must be com-
An. Sci. 100	3		equal at least 50 hours.		pleted in
An. Sci. 102 or	3				residence.
Da. Sci. 102					
Da. Sci. 100	3				Transfer:
Forestry 102	3				Residence:
NON-AGRICULTURE PRESCRIBED:					
Botany 100	4				Earned:
Botany 130	5				To be
Chem. 101, 102, or 111	3-5				earned:
Chem. 132 or 133	3-5				
Econ. 108	3		HUMANITIES AND SOCIAL SCIENCES--12 hours from:		
Geology 105	4		anthro., art, econ., fin., for. lang., geog., hist.,		
			land. arch., lit., music, phil., pol. sci.,		
			psych., religion, soc., and speech.		
Math. Placement Test or					Earned:
Math. 111, 112, or 104	3-5				To be
					earned:
Rhetoric 101	3		OPEN ELECTIVES:		
Rhetoric 102	3				
Speech 101	3				TOTAL HOURS
Zoology 104	4				
Mil.-Mil.	1-1				
Mil.-Mil.	1-1				
P.E.-P.E.	(1-1)				
P.E.-P.E.	(1-1)				

126 hours, including military and excluding P.E., are required for the degree as outlined above. Minimum average of 3.0 is required for graduation. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at U. of I. and a combined average of 3.0 for transfer and University of Illinois work.





## General Curriculum in Agriculture, cont.

## MAJOR IN GENERAL AGRICULTURE

For students who are interested in broad basic training in agriculture rather than in specialization within a departmental field of work. Areas for which such training is suited include farming, agricultural extension, agricultural services, conservation and wildlife management, pre-theological study, and others.

For common core requirements see page 12. Other courses required for this major are:

<u>Prescribed Courses in Agriculture</u>	<u>Semester</u>	<u>Hours</u>
Agronomy 201--Soils (I,II)		5
At least three hours credit in each of the following departments, in addition to courses taken to complete Group 1 requirements:		
Agricultural Economics		3
Agricultural Engineering		3
Agronomy (in addition to 201)		3
Animal Science		3
Dairy Science		3
Horticulture		3
Elective courses in Agriculture to bring total Agriculture to a minimum of fifty hours.		
Humanities and Social Sciences (see page 13 for definition)		12
<u>Open Electives to Bring Total Hours to:</u>		126

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Suggested programs of courses are outlined on the following pages for students who wish to prepare for work in agricultural extension, conservation and wildlife management, or for theological study.

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Suggested courses for pre-theological students  
as preparation for admission to a theological seminary

In addition to the courses specifically required in the first two years of the general curriculum in agriculture, and the general agriculture major, the following are also recommended for students enrolled in the College of Agriculture who plan to enter the ministry:

Education  
English Literature (preferably two courses)  
Foreign Language (French, German, or Greek)  
History or Government (preferably two courses)  
Philosophy  
Psychology  
Religion (Foundation Courses)  
Rural Sociology  
Sociology

These will fulfill requirements for entry into most seminaries, but a student planning to enter a particular seminary should check as to courses required for admission and pre-enroll in the seminary of his choice.

CHAPTER II. THE COMMISSIONERS OF THE GENERAL LAND OFFICE

The Commission of the General Land Office is a body of five members, appointed by the Crown, and is responsible to the House of Commons. It is the principal body in the land administration, and its functions are to advise the Government on all matters relating to the land, and to execute the orders of the Government in this regard.

The Commission is composed of the following members: the Secretary of State for the Colonies, the Secretary of State for the Home Office, the Secretary of State for the War Office, the Secretary of State for the Admiralty, and the Secretary of State for the India Office.

The Commission is divided into three departments: the Department of Land, the Department of Survey, and the Department of Valuation. The Department of Land is responsible for the management of the land, and the Department of Survey is responsible for the surveying of the land. The Department of Valuation is responsible for the valuation of the land.

The Commission is also responsible for the management of the land, and for the execution of the orders of the Government in this regard.

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Suggested Program for Agricultural Extension

(Major in General Agriculture)

<u>Agriculture Courses, including:</u>	<u>Semester</u>	<u>Hours</u>
Agriculture 100--Lectures for Freshmen in Agriculture (I,II)		0
Agronomy 121--Crop Production (I,II)		4
Animal Science 102--Feeds and Feeding (I,II)		3
Dairy Science 100--Introd. to Dairy Production (I,II)		3
Agronomy 110, An. Sci. 110, Da. Sci. 110, or Hort 110--Plant and Animal Genetics (I,II)		3
Agricultural Economics 220--Farm Management (I,II)		3
Agricultural Economics 230--Marketing of Agric. Products (I,II)		3
Agriculture 114--Agricultural Journalism (I,II)		3
Agriculture 206--Agricultural Extension (II)		3
Agronomy 201--Soils (I,II)		5
Entomology 101--Agricultural Entomology (I,II)		3
Rural Sociology 117--Introduction to Rural Sociology (I,II)		3

One additional three-hour course from each of the following departments:

Agricultural Engineering, Agronomy, Animal Science, Dairy Science, and Horticulture, to be chosen from the recommended agriculture electives below:

Agr. Econ. 273, 302, 303, 305, 324, 325

Agr. Eng. 241, 252, 272, 361

Agriculture 208, 214, 216

Animal Science 301, 302, 303, 304

Agronomy 301, 306, 322, 326

Dairy Science 202, 205, 330

Forestry 100

Horticulture 225, 242, 262

Plant Path. 204

Humanities and Social Sciences (see page 13 for definition) 12

Including nine hours from:

Econ. 109--Principles of Economics (I,II) 3

Pol. Sci. 150--American Government: Organization and Powers (I,II) 3

Sociology (200- or 300-level course) 3

Speech 113--Group Discussion and Conference Leadership (I,II) 3

Speech 221--Persuasion (I,II) 3

Psychology 100--Introduction to Psychology (I,II) or 4

D. G. S. 171--Psychology for General Education (I,II) 4

Open Elective

Rhetoric 151--Business Letter Writing (I,II) 3





**Suggested Program for Conservation and Wildlife Management**  
(Major in General Agriculture)

Students who wish to obtain a degree in agriculture with specialization in conservation and wildlife management should complete the core requirements of the general curriculum and the following courses:

<u>Agriculture Courses From Group I</u>	<u>Semester</u>	<u>Hours</u>
Agr. Economics 100--Introductory Agric. Economics (I, II)		3
Agronomy 121--Crop Production (I, II)		4
Forestry 100--Farm Forestry (I, II)		3
Horticulture 110--Plant and Animal Genetics (I, II)		3
Agriculture Elective from Group I		3
<u>Other Agricultural Courses</u>		
Agr. Economics 220--Farm Management (I, II)		3
Agr. Engineering 252--Mechanics of Soil and Water Conservation (II)		3
Agriculture 216--Experimental and Biological Statistics (I, II)		3
Agronomy 201--Soils (I, II)		5
Agronomy 307--Principles of Soil Conservation (II)		3
Animal Science or Animal Nutrition Electives (200 or 300 level)		3
Dairy Science 102--Feeds and Feeding (I, II)		3
Entomology 101--Agricultural Entomology (I, II)		3
Horticulture 121--Plant Propagation (I)		3
Agriculture electives to bring total to 50 hours		5-6
<u>Humanities and Social Sciences</u> (see page 12 for definition)		12
<u>Non-Agriculture Courses for GAME MANAGEMENT SPECIALIZATION</u>		
Botany 160--Introductory Plant Taxonomy (II)		3
Botany 381--Plant Ecology (I)		3
Physiology 361 (Zoology 361)--Comparative Physiology (I)		5
Zool. 132--Comparative Vertebrate Anatomy (I, II)		5
Zool. 335--Ornithology (II)		3
Zool. 336--Mammalogy (I--alternate years)		3
Zool. 342--Wildlife Management and Conservation (I)		3
Zool. 345--Animal Ecology (I)		3-5
<u>Non-Agriculture Courses for FISH MANAGEMENT SPECIALIZATION</u>		
Botany 160--Introductory Plant Taxonomy (II)		3
Chem. 105--Inorganic Chem. and Qualitative Analysis (I, II)		5
Chem. 122--Elementary Quantitative Analysis (I, II)		5
Physiology 361 (Zoology 361)--Comparative Physiology (I)		5
Zool. 132--Comparative Vertebrate Anatomy (I, II)		5
Zool. 304--Field and Systematic Zoology (I)		5
Zool. 337--Ichthyology (I--alternate years)		3
Zool. 342--Wildlife Management and Conservation (I)		3
Zool. 345--Animal Ecology (I)		3-5

Approved: President for Government and for the People  
(Name: J. Edgar Hoover)

It is the policy of the Federal Bureau of Investigation to maintain the highest standards of efficiency and integrity in the performance of its duties and to ensure that its personnel are of the highest caliber.

Approved: Director for Government and for the People  
(Name: J. Edgar Hoover)

Approved: Assistant Director for Government and for the People  
(Name: J. Edgar Hoover)

Approved: Chief of Bureau for Government and for the People  
(Name: J. Edgar Hoover)

Approved: Chief of Division for Government and for the People  
(Name: J. Edgar Hoover)

Approved: Chief of Section for Government and for the People  
(Name: J. Edgar Hoover)



General Curriculum with Major in GENERAL AGRICULTURE  
(for degree of B.S. in Agriculture)

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_

DATE \_\_\_\_\_

AGRICULTURE PRESCRIBED:		HOURS	GRADE	AGRICULTURE ELECTIVES: Must include 3 hours of additional credit in each of the following departments:			
Agr. 100		0		Agr. Econ.			
Agron. 201		5		Agr. Eng.			
15 HOURS FROM:				Agron.			
Agr. Econ. 100		3		An. Sci.			
Agr. Eng. 100		3		Da. Sci.			
Agron. 121		4		Hort.			
An. Sci. 100		3					
An. Sci. 102 or Da. Sci. 102		3					At least 25 hours of Agr. must be completed in residence.
Da. Sci. 100		3		OTHER AGRICULTURE ELECTIVES--Total Agr. prescribed and elective must equal at least 50 hours.			
Forestry 100		3					
Hort. 100		3					
Agron. 110, An. Sci. 110, Da. Sci. 110, or Hort. 110		3					Transfer:
NON-AGRICULTURE PRESCRIBED:							Residence:
Botany 100		4					
Chem. 101, 102, or 111		3-5					Earned:
Chem. 132 or 133		3-5					To be earned:
Econ. 108		3					
Geology 105		4		HUMANITIES AND SOCIAL SCIENCES--12 hours from: anthro., art, econ., fin., for.lang., geog., hist., land.arch., lit., music, phil., pol.sci., psych., religion, soc., and speech.			
Math. Placement Test or Math 111, 112 or 104		3-5					Earned:
Rhetoric 101		3					To be earned:
Rhetoric 102		3					
Speech 101		3		OPEN ELECTIVES:			
Zoology 104		4					TOTAL HOURS
Mil.-Mil.		1-1					
Mil.-Mil.		1-1					
P.E.-P.E.		(1-1)					
P.E.-P.E.		(1-1)					

126 hours, including military and excluding P.E., are required for the degree as outlined above. Minimum average of 3.0 is required for graduation. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at U. of I. and a combined average of 3.0 for transfer and University of Illinois work.

# UNITED STATES DEPARTMENT OF AGRICULTURE OFFICE OF THE ASSISTANT SECRETARY

WASHINGTON, D. C.

NOVEMBER 10, 1917

NAME OF PERSON OR FIRM			AMOUNT		DATE	
J. H. HARRIS	1000	1000	1000	1000	1000	1000
		1000	1000	1000	1000	1000
		1000	1000	1000	1000	1000
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J. H. HARRIS	1000	1000	1000	1000	1000	1000
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J. H. HARRIS	1000	1000	1000	1000	1000	1000
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		1000	1000	1000	1000	1000

THESE CHECKS ARE ISSUED BY THE UNITED STATES DEPARTMENT OF AGRICULTURE, OFFICE OF THE ASSISTANT SECRETARY, WASHINGTON, D. C.

NOVEMBER 10, 1917



General Curriculum in Agriculture with Major  
for Teachers of Vocational Agriculture

The purpose of this curriculum is to train young men to teach agriculture in high schools having departments of vocational agriculture. In addition to the training outlined in this curriculum, the present Illinois State Plan for Teachers of Vocational Agriculture calls for a minimum of two years of practical experience on the farm after reaching the age of sixteen.

A minimum of 126 hours of credit, including the first two years of military training and excluding physical education, is required for graduation. While students are advised to take courses in the order indicated, they may with the approval of their advisers take courses at another time.

Since all of the requirements of the common first two years of the General Curriculum in Agriculture are included in this major, students may follow the general curriculum for the first two years and then change to this major without loss of time.

Continuation in this curriculum with a major in vocational agriculture requires admission to advanced standing in teacher education. Application for admission to advanced standing must be made through a vocational agriculture adviser at the time of registration for the final semester of the sophomore year. A student who transfers with more than sophomore standing must apply for admission to advanced standing at the time of his first resignation.

Admission to advanced standing is determined on the basis of applicant's academic and personal qualifications for teaching. The completion of certain standardized tests is required. The record of an applicant whose academic average is below 3.5 is subject to special study.

Admission to advanced standing in teacher education is prerequisite to admission to courses in educational practice (student teaching). A student who is admitted to advanced standing in teacher education is admitted to the appropriate educational practice course unless there is subsequent deterioration in his record.

Applications for student teaching assignments are received twice each year. Students who are on the campus during the spring semester prior to the year they expect to enroll in student teaching must apply for an assignment during February of that semester; students who are not on the campus during the spring semester are allowed to apply for assignment during the first three weeks of the fall semester. Application forms may be obtained in the Office of Student Teaching, 208 Gregory Hall.

Agricultural Education 275, Summer Experience in Agricultural Education, is highly recommended for students in this major, and should be taken between the junior and senior years.





General Curriculum in Agriculture with Major for Teachers of Vocational Agriculture (for the degree, Bachelor of Science in Agriculture) 41.

First Year

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Agr. 100--Lect. for Freshmen	0	Agr. Course from Group I, or Math	
Agr. Course from Group I	3	111--Alg., or Math. 112--College Alg.,	
Agr. Course from Group I, or Math.		or Math. 104--Elements of Algebra	
111--Algebra, or Math. 112--College		and Trig. <sup>1/</sup>	3-5
Alg., or Math. 104--Elements of		Chem. 101, 102, or 111--Gen. Chem.	3-5
Alg. and Trig. <sup>1/</sup>	3-5	Rhet. 102--Rhet. and Comp.	3
Bot. 100--General Botany	4	Zool. 104--Elementary Zool.	4
Rhet. 101--Rhet. and Comp.	3	Physical Education	(1)
Physical Education	(1)	Military (men)	1
Military (men)	1		
Total	15-17	Total	15-17

Second Year

Agr. Eng. 111--Farm Structures and		Agr. Eng. 112--Tractors and Field	
Soil and Water Conservation	3	Machinery	3
Agriculture Courses from Group I	6	Agriculture Courses from Group I	6
Ed. 101--The Nature of the Teaching		Chem. 132--Elem. Org. Chem.	3
Profession	2	Econ. 108--Elements of Economics	3
Geol. 105--Agricultural Geology	4	Physical Education	(1)
Physical Education	(1)	Military (men)	1
Military (men)	1		
Total	17	Total	17

Third Year

Agriculture Course from Group I	3	Agr. Econ. 220--Farm Management	3
Agron. 201--Soils	5	Ed. 201--Found. of American Ed.	2
Psych. 100--Introd. to Psych.	4	Ed. 240--Prin. of Second. Ed.	2
Speech 101--Prin. of Effective		One of the following: Hist.	
Speaking	3	151, 152, 261, or 262	4-3
Agricultural Electives <sup>2/</sup>	0-3	Agricultural Electives <sup>2/</sup>	6
Total	15-18	Total	16-17

Fourth Year

Semesters interchangeable. Courses taken with practice teaching will be offered during a ten-week period.

Agr. Ed. 276--Pract. in Agr. Ed.	5	Pol. Sci. 150--American Govt.	3
Agr. Ed. 277--Programs and Pro-		Agricultural Electives <sup>2/</sup>	3-6
cedures in Agr. Education	5	Electives (including two hours of	
Agr. Eng. 201--Farm Shop Work	3	humanities <sup>3/</sup> ) <sup>2/</sup>	6-12
Ed. 211--Educ. Psych.	3		
Total	16	Total	15-18

Total hours credit required for the B.S. degree . . . . . 126

- <sup>1/</sup> Students who pass the math. placement test are not required to take a math. course.
- <sup>2/</sup> Students who wish to complete an approved minor see p. 43 for requirements.
- <sup>3/</sup> A total of six hours of humanities is required.

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Group 1--Courses in agriculture required of all students in this curriculum.

<u>Courses</u>	<u>Hours</u>
Agr. Econ. 100--Introductory Agr. Economics <sup>1/</sup>	3
Agronomy 121--Crop Production	4
An. Sci. 100--Introduction to Animal Science	3
An. Sci. or Da. Sci. 102--Feeds and Feeding	3
Da. Sci. 100--Introduction to Dairy Prod.	3
Horticulture 100--Introductory Horticulture <sup>1/</sup>	3
Forestry 100--Farm Forestry, or Forestry 101-- General Forestry, or Hort. elective	<u>3</u>
Total	22

Fifth Year

(for the degree, Master of Science in Agricultural Education)

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
Agricultural Courses With Graduate Credit	2	Agricultural Courses With Graduate Credit	2
Educ. 311--Psych. of Learning for Teachers	1/2	Two of the following courses:	
Educ. 312--Mental Hygiene and the School	1 1/2	Educ. 301--Philos. of Educ.	1/2
Electives	1	Educ. 302--Hist. of Am. Educ.	1/2
		Educ. 303--Comparative Educ.	1/2
		Educ. 304--Social Foundations of Education	1/2
		Electives	<u>1</u>
Total	<u>4</u>	Total	<u>4</u>

This fifth-year program is open only to students who have previously met the minimum requirement for teaching vocational agriculture under the Smith-Hughes and related acts. It is planned as a fifth year for students who have completed four years of college work fully equivalent to the General Curriculum in Agriculture with Major for Teachers of Vocational Agriculture.

Teachers planning to complete the requirements for this degree while employed should note the following regulations:

1. Four of the eight required units must be in agriculture and two must be in education, and must be selected with the approval of the adviser.
2. Not more than four units may be earned extramurally; of the credits earned extramurally, no more than two can be in agriculture and no more than two can be in education.

<sup>1/</sup> Students entering as juniors or seniors should substitute Agr. Economics 230 for Agr. Economics 100 and Horticulture 242 or 262 for Horticulture 100.

1919

1919

THE JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION  
PUBLISHED WEEKLY  
CHICAGO, ILL., MAY 1, 1919  
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PUBLISHED BY THE AMERICAN MEDICAL ASSOCIATION  
535 N. Dearborn Ave., Chicago, Ill. 60610  
Subscription price, \$5.00 per annum in advance.  
Single copies, 15 cents.

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CHICAGO, ILL., MAY 1, 1919

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## General Curriculum in Agriculture, cont.

Students who wish to qualify for a limited high school certificate as well as a special certificate must complete an approved minor.

Teacher Education Minor in Biology  
For Teachers of Vocational Agriculture

	<u>Hours</u>
Botany 100--General Botany.....	4
Agron. 110, An. Sci. 110, Da. Sci. 110, or Hort. 110--Plant and Animal Genetics.....	3
Mcbio. 100 and 101--Introductory Microbiology.....	5
Entom. 103--Life of Insects, or Entom. 101--Agricultural Entomology.....	3-4
Zool. 101--General Zoology, or Zool. 104--Elementary Zoology .....	4-5
Total...	19-21

Select from the following to bring total hours for the minor to a minimum of 24.1/

Agron. 321 --Ecology and Physiology of Crop Production.....	3
Botany 381 --Plant Ecology.....	4
Physiol. 103 --Introduction to Human Physiology.....	4
Vet. Phys. & Pharm. 202 --Physiology of Domestic Animals.....	3
Zool. 304 --Field and Systematic Zoology.....	5
Zool. 342 --Wildlife Management and Conservation.....	3
Zool. 345 --Animal Ecology.....	5

Teacher Education Minor in General Science  
For Teachers of Vocational Agriculture

	<u>Hours</u>
D.G.S. 141 - Physical Sciences or courses in astronomy and physics.....	4
Bot. 100 - General Botany.....	4
Chem. 101, 102, or 111 --General Chemistry.....	3-5
Chem. 132 --Elementary Organic Chemistry.....	3
Geol. 101 --Physical Geology or Geol. 105--Agricultural Geology.....	4
Math. 104 --Elements of Algebra and Trigonometry, or Math. 111 --Algebra, or Math. 112--College Algebra .....	3-5
Zool. 101 --General Zoology or Zool. 104 - Elementary Zoology.....	4-5
Total....	25-30

1/ The electives, to be selected in consultation with the student's adviser, should be chosen with a view to providing breadth as well as depth of preparation in the biological sciences. Botany 381 or Zool. 345 are strongly recommended as electives.



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**General Curriculum in Agriculture with Major for TEACHERS OF VOCATIONAL AGRICULTURE**  
(for degree of B.S. in Agriculture)

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_

DATE \_\_\_\_\_

AGRICULTURE PRESCRIBED--These courses should be completed before the junior year or as soon thereafter as possible.			AGRICULTURE ELECTIVES--The total of Agr. prescribed and Agr. elective courses must equal at least 50 hours.			At least 25 hours of Agr. must be completed in residence.
	HOURS	GRADE		HOURS	GRADE	
Agr. 100	0					Transfer:
Agr. Econ. 100	3					
Agr. Econ. 220	3					Residence:
Agr. Eng. 111	3					
Agr. Eng. 112	3					Earned:
Agron. 121	4					
Agron. 201	5					To be earned:
An. Sci. 101	3					
An. Sci. 102 or Da. Sci. 102	3					
Da. Sci. 100	3					
Hort. 100	3					
Forestry 100 or 101, or Hort. elective	3					
NON-AGRICULTURE PRESCRIBED:			SOCIAL SCIENCES PRESCRIBED:			TOTAL HOURS
Botany 100	4		Hist. 151, 152, 261 or 262	3-4		
Chem. 101, 102 or 111	3-5		Pol. Sci. 150	3		
Chem. 132 or 133	3-5		HUMANITIES (Minimum of 6 hrs.)			
Economics 108	3		Psychol. 100	4		
Geology 105	4		Humanities (art, music, lang., lit., psych., phil., religion)			
Math. Placement Test or Math. 111, 112, or 104	3-5		EDUCATION COURSES PRESCRIBED:			
Rhetoric 101	3		Education 101	2		
Rhetoric 102	3		Education 201	2		
Speech 101	3		Education 211	3		
Zoology 104	4		Education 240	2		
Mil.-Mil.	1-1		Agr. Educ. 276	5		
Mil.-Mil.	1-1		Agr. Educ. 277	5		
P.E.-P.E.	(1-1)		OPEN ELECTIVES:			
P.E.-P.E.	(1-1)					

126 hours, including military and excluding P.E., are required for the degree as outlined above. A minimum average of 3.0 is required for graduation. An all-University average of 3.5 is required for practice teaching. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at the U. of I. and a combined average of 3.0 for transfer and U. of I. work.





## AGRICULTURAL INDUSTRIES CURRICULUM

(for the degree, Bachelor of Science in Agriculture)

This curriculum provides a broad selection of courses in agricultural sciences, natural sciences, economics and other social sciences, business administration, finance, communication, and the humanities. It is designed to prepare students for careers in those industries and businesses which service or are related to agriculture. A minimum of 26 hours of commerce and business administration courses is required.

During the first two years, this curriculum closely parallels the requirements of the General Curriculum in Agriculture. Students desiring to transfer to the Agriculture Industries curriculum anytime during the first two years may do so with little difficulty.

Examples of specific opportunities for employment are:

1. Farm Supplies - Marketing of feed, seed, fertilizer, machinery, equipment, and other supplies to farmers;
2. Agricultural Commodities - Marketing of agricultural commodities in local, intermediate, and central markets;
3. Food and Food Products - Distribution of food and food products in wholesale and retail markets, including institutional users; and
4. Agricultural Real Estate and Finance - Services related to the appraisal, financing, ownership, and transfer of agricultural property.

An adviser will assist each student in planning a specific program.

Upon completion of the curriculum requirements and a minimum of 126 hours of credit, exclusive of physical education, the student is awarded the degree of Bachelor of Science in Agriculture.



## AGRICULTURE INDUSTRIES CURRICULUM

College of Agriculture  
University of Illinois

For the degree of Bachelor of Science in Agriculture

Sample Program for First Two Years

<u>First Semester</u>	<u>First Year</u> <u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Botany 100--General Botany	4	Chem. 101, 102 or 111--Gen.	
Rhet. 101--Rhet and Comp. <sup>1/</sup>	3	Chem.	3-5
Agr. 100--Lecture for Freshmen <sup>3/</sup>	0	Rhet. 102--Rhet. and Comp. <sup>4/</sup>	3
Agr. Courses from Group I		Math. 111, 112 or 104--Alg.	
or Math. 111, or 112 or 104--Alg.		or Alg. and Trig.	
or Alg. and Trig. <sup>2/</sup>	3-5	or Agr. Course from Group I	3-5
Agr. Course from Group I	3	Zoology 104--Elementary Zoology	4
Military (men)	1	Military (men)	1
Physical Education	(1)	Physical Education	(1)
Total	<u>15-17</u>	Total	<u>15-17</u>

<u>Second Year</u>			
Chem. 132--Organic Chemistry	3	Agr. Course from Group I	3
Geol. 101 or 105 Phys. or Agric.		Agr. elective from Group III	3
Geol.	4	Comm. and Bus. Admin. Course	
Two Agr. Courses from Group I	6-7	from Group II <sup>2/</sup>	3
Military (men)	1	Journ., Speech or Rhet. (exclu-	
Physical Education	(1)	sive of Rhet. 101, 102, 200	
Total	<u>15-16</u>	and Speech 101) <sup>4/</sup>	3
		Speech 101--Principles of Ef-	
		fective Speaking	3
		Military (men)	1
		Physical Education	(1)
		Total	<u>17</u>

Group I - Agriculture Prescribed--Agriculture 100 and a minimum of 14 hours selected from courses listed below; these should be completed during the first two years:

Agriculture 100--Lectures for Freshmen in Agriculture	0
Agricultural Economics 100--Introductory Agricultural Economics	3
Agricultural Engineering 100--Engineering Applications in Agriculture	3
Agriculture 114--Agricultural Journalism	3
Agronomy 121--Crop Production	4
Animal Science 100--Introduction to Animal Science	3
Animal Science 102 (or Dairy Science 102)--Feeds and Feeding	3
Dairy Science 100--Introduction to Dairy Science	3
Forestry 100--Farm Forestry	3
Genetics 110 (Agronomy 110, Animal Science 110, Dairy Science 110, or Horticulture 110)--Plant and Animal Genetics	3
Home Economics 120--Elementary Nutrition	2
Horticulture 100--Introductory Horticulture	3
Rural Sociology 117--Introduction to Rural Sociology	3

Junior and Senior Years

The general requirements in addition to the courses listed for the first two years include (1) completion of a minimum of 26 hours of commerce and business administration courses; (2) completion of 21 hours of agriculture electives in addition to the 14



Section 1: Introduction

Section 2: Main Content

Item	Description	Value	Category
1	Item 1 Description	100	Category A
2	Item 2 Description	200	Category B
3	Item 3 Description	300	Category C
4	Item 4 Description	400	Category D
5	Item 5 Description	500	Category E
6	Item 6 Description	600	Category F
7	Item 7 Description	700	Category G
8	Item 8 Description	800	Category H
9	Item 9 Description	900	Category I
10	Item 10 Description	1000	Category J

Section 3: Summary

Section 4: Conclusion

hours of agriculture prescribed in Group I; (3) completion of at least 9 hours of Social Science (other than economics); (4) completion of at least 6 hours of humanities; (5) completion of sufficient open electives to bring total hours to 126.

SOCIAL SCIENCE - Nine hours of social science (other than economics) chosen from anthropology, geography, history, political science, psychology, or sociology.

HUMANITIES - Six hours of humanities chosen from art, music, language, literature, philosophy, or religion.

The social science and humanities courses will normally be taken during the junior-senior years.

Group II - Commerce and Business Administration prescribed - 26 hours

Accountancy 201 or 101 and 105	3 or 6
Economics 1082/	3
Economics 109	3
Economics 1706/	3
Finance 250 or 254	3
Marketing 271	2

Electives (approved by adviser) chosen from accountancy, business law, economics, finance, management and marketing to bring total commerce and business administration to 26 hours.

Group III - Suggested Agriculture electives - 21 hours

The following listing of agricultural courses is intended as a guide from which electives may be chosen. Other courses may be selected upon approval of the adviser. A total of 21 hours is required.

For those interested in <u>farm supplies</u>	For those interested in <u>agricultural commodities</u>	For those interested in <u>food and food products</u>	For those interested in <u>agricultural real estate and finance</u>
Agr. Econ. 220	Agr. Econ. 230	Agr. Econ. 230	Agr. Econ. 220
238	238	335	302
342	331	342	303
Agr. Eng. 131	332	An. Sci. 104	312
142	334	Dairy Tech. 102	342
242	335	Food Tech. 260	Agr. Eng. 252
272	342	332	272
281	Agron. 321	Home Ec. 120	Agron. 201
Agron. 201	An. Nutr. 301	Hort. 242	301
302	An. Sci. 103	262	
306	104		
311	301		
322	302		
323	303		
326	304		
An. Nutr. 301	Dairy Sci. 202		
An. Sci. 301	Dairy Tech. 102		
302			
303			
304			
Dairy Sci. 305			
202			
Entom. 101			
Pl. Path. 204			

Open electives to bring total hours to 126.





- 1/ D. G. S. 111 and 112, Verbal Communications, both four-hour courses, may be substituted for Rhetoric 101, 102, and Speech 101.
- 2/ A student in this curriculum is required to complete either Mathematics 111, Algebra, 5 hours; or Mathematics, 112, College Algebra, 3 hours; or Mathematics 104, Elements of Algebra and Trigonometry, 3 hours; or pass the placement examination in mathematics. See page 10 and 13 for additional details.
- 3/ A non-credit orientation course required of all freshmen in agriculture.
- 4/ One course in journalism, speech, or rhetoric is required, in addition to Rhetoric 101 and 102 and Speech 101 and exclusive of Rhetoric 200.
- 5/ Economics 108 is recommended from this group for the sophomore year.
- 6/ Agriculture Economics 341 may be substituted for Economics 170.

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AGRICULTURAL INDUSTRIES CURRICULUM  
(for degree of B.S. in Agriculture)

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_  
DATE \_\_\_\_\_

AGRICULTURE PRESCRIBED:	HOURS	GRADE	OTHER AGRICULTURE ELECTIVES--Total	At least 18
Agr. 100 (For Freshmen)	0		Agr. prescribed and elective must equal at least 35 hours. (See suggested electives)	hours of Agr. must be completed in residence.
14 HOURS FROM:			HOURS GRADE	Transfer:
Agr. Econ. 100	3			Residence:
Agr. Eng. 101	3			Earned:
Agr. 114	3			To be earned:
Agron. 121	4			
An. Sci. 100	3			
An. Sci. 102 or Da. Sci. 102	3			
Da. Sci. 100	3			
Forestry 100	3			
Home Econ. 120	2			
Hort. 100	3			
Agron. 110, An. Sci. 110, Da. Sci. 110 or Hort. 110	3		COMMERCE AND BUS. ADM.--Requirements: a minimum of 26 hours including:	
Rur. Soc. 117	3		Accy. 101 and 105, or 201	
NON-AGRICULTURE PRESCRIBED:				
Botany 100	4		Econ. 108	
			Econ. 109	
Chem. 101, 102, or 111	3-5		Econ. 170	
			Finance 250 or 254	
Chem. 132	3		Mktg. 271	
Geology 101 or 105	4		Electives chosen from: accy., bus. law, econ., finance, mgmt., and mktg.	Earned:
Math. Placement Test or Math. 111, 112 or 104	3-5			To be earned:
			SOCIAL SCIENCE (other than Econ.)--9 hours from anthro., geog., hist., pol. sci., psych., or soc.	
Rhetoric 101	3			Earned:
Rhetoric 102	3			To be earned:
Speech, Journ. or Rhetoric Elective	2-3		HUMANITIES--6 hours from art, music, lit., phil., or religion.	for. lang.,
Speech 101	3			Earned:
Zoology 104	4		OPEN ELECTIVES:	To be earned:
Mil.-Mil.	1-1			
Mil.-Mil.	1-1			TOTAL HOURS
P.E.-P.E.	(1-1)			
P.E.-P.E.	(1-1)			

126 hours, including military and excluding P.E., are required for the degree as outlined above. Minimum average of 3.0 is required for graduation. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at U. of I. and a combined average of 3.0 for transfer and University of Illinois work.



# UNITED STATES DEPARTMENT OF AGRICULTURE BUREAU OF PLANT INDUSTRY

OFFICE OF THE CHIEF, BUREAU OF PLANT INDUSTRY  
WASHINGTON, D. C.

1917

Name of Plant		Number of Plants		Date of Collection		Collector		Locality		Remarks	
Cotton		1		1917		J. H. ...		...		...	
Wool		1		1917		J. H. ...		...		...	
Silk		1		1917		J. H. ...		...		...	
Hemp		1		1917		J. H. ...		...		...	
Flax		1		1917		J. H. ...		...		...	
Jute		1		1917		J. H. ...		...		...	
Linen		1		1917		J. H. ...		...		...	
Cane		1		1917		J. H. ...		...		...	
Bamboo		1		1917		J. H. ...		...		...	
Rice		1		1917		J. H. ...		...		...	
Wheat		1		1917		J. H. ...		...		...	
Corn		1		1917		J. H. ...		...		...	
Soybean		1		1917		J. H. ...		...		...	
Cassia		1		1917		J. H. ...		...		...	
Alfalfa		1		1917		J. H. ...		...		...	
Clover		1		1917		J. H. ...		...		...	
Timothy		1		1917		J. H. ...		...		...	
Orchardgrass		1		1917		J. H. ...		...		...	
Brome		1		1917		J. H. ...		...		...	
Fescue		1		1917		J. H. ...		...		...	
Ryegrass		1		1917		J. H. ...		...		...	
Tall Fescue		1		1917		J. H. ...		...		...	
Kentucky Bluegrass		1		1917		J. H. ...		...		...	
Sudangrass		1		1917		J. H. ...		...		...	
Guinea Grass		1		1917		J. H. ...		...		...	
Elephant Grass		1		1917		J. H. ...		...		...	
Melinis		1		1917		J. H. ...		...		...	
Pennisetum		1		1917		J. H. ...		...		...	
Sorghum		1		1917		J. H. ...		...		...	
Millet		1		1917		J. H. ...		...		...	
Barnyard Grass		1		1917		J. H. ...		...		...	
Digitaria		1		1917		J. H. ...		...		...	
Panicum		1		1917		J. H. ...		...		...	
Echinochloa		1		1917		J. H. ...		...		...	
Setaria		1		1917		J. H. ...		...		...	
Paspalum		1		1917		J. H. ...		...		...	
Tripsacum		1		1917		J. H. ...		...		...	
Lactuca		1		1917		J. H. ...		...		...	
Chenopodium		1		1917		J. H. ...		...		...	
Amaranthus		1		1917		J. H. ...		...		...	
Portulaca		1		1917		J. H. ...		...		...	
Suaeda		1		1917		J. H. ...		...		...	
Halimolobos		1		1917		J. H. ...		...		...	
Sarcobatus		1		1917		J. H. ...		...		...	
Arthrocnemum		1		1917		J. H. ...		...		...	
Distichlis		1		1917		J. H. ...		...		...	
Spartina		1		1917		J. H. ...		...		...	
Eleocharis		1		1917		J. H. ...		...		...	
Scirpus		1		1917		J. H. ...		...		...	
Cyperus		1		1917		J. H. ...		...		...	
Eriophorum		1		1917		J. H. ...		...		...	
Carex		1		1917		J. H. ...		...		...	
Juncus		1		1917		J. H. ...		...		...	
Sagittaria		1		1917		J. H. ...		...		...	
Najas		1		1917		J. H. ...		...		...	
Sphagnum		1		1917		J. H. ...		...		...	
Selaginella		1		1917		J. H. ...		...		...	
Lycopodium		1		1917		J. H. ...		...		...	
Isoetes		1		1917		J. H. ...		...		...	
Marchantia		1		1917		J. H. ...		...		...	
Funaria		1		1917		J. H. ...		...		...	
Tortula		1		1917		J. H. ...		...		...	
Polytrichum		1		1917		J. H. ...		...		...	
Ceratophyllum		1		1917		J. H. ...		...		...	
Utricularia		1		1917		J. H. ...		...		...	
Sagittaria		1		1917		J. H. ...		...		...	
Najas		1		1917		J. H. ...		...		...	
Sphagnum		1		1917		J. H. ...		...		...	
Selaginella		1		1917		J. H. ...		...		...	
Lycopodium		1		1917		J. H. ...		...		...	
Isoetes		1		1917		J. H. ...		...		...	
Marchantia		1		1917		J. H. ...		...		...	
Funaria		1		1917		J. H. ...		...		...	
Tortula		1		1917		J. H. ...		...		...	
Polytrichum		1		1917		J. H. ...		...		...	
Ceratophyllum		1		1917		J. H. ...		...		...	
Utricularia		1		1917		J. H. ...		...		...	

This curriculum is especially designed for students who plan to do graduate study in agricultural fields or for those who wish to engage in technical work requiring more science, mathematics, or engineering than is included in the General Curriculum in Agriculture. Students entering this curriculum as freshmen must have a scholarship rank in the upper half of their graduating class, and those entering as transfers must have a scholastic average in their collegiate work of not less than 3.5 in terms of the grading system of the University of Illinois. Once enrolled, they must maintain an average of at least 3.5 to remain in and graduate from the curriculum.

Options I and II provide an opportunity for planning individual programs of study under the supervision of a faculty adviser qualified in the student's special field of interest. Option III includes many prescribed courses both in agriculture and in engineering. Careful scheduling of courses is necessary.

Option I. For students desiring preparation for graduate study or technical work in animal, plant, or soil science.

Option II. For students desiring preparation for graduate study or technical work in the fields included in agricultural economics, agricultural law, and rural sociology.

Option III. For students enrolled in the five-year combined agricultural science and agricultural engineering program. All requirements of the combined curriculum as outlined on the following pages must be completed to satisfy the requirements for a degree in agriculture.

	Options I and III Minimum Hours	Option II Minimum Hours
General University Requirements (Military, Physical Education and Rhetoric)	10	10
Group I: College of Agriculture Courses	35 <sup>1/</sup>	35
Group II: Humanities (Art, Music, Language, Literature, Philosophy, Religion)	6	6
Group III: Social Science (Anthropology, Economics, Finance, Geography, History, Political Science, Psychology, Sociology)	6	16 <sup>3/</sup>
Group IV: Biological Science (botony, ento- mology, microbiology, physiology, zoology)	10 <sup>2/</sup>	6
Group V: Physical Science (Chemistry, Geology, Mathematics, Physics) <sup>4/</sup>	10 <sup>2/</sup>	16
Electives (unrestricted)	<u>24</u>	<u>37</u>
TOTAL required for graduation	126	126

<sup>1/</sup>In Option III, a maximum of 15 hours of agricultural engineering courses may be credited toward the degree in agriculture.

<sup>2/</sup>Students in Options I and III must complete a total of 45 hours in Groups IV and V combined with a minimum of 10 hours in each.

<sup>3/</sup>Students in Option II must include at least 8 hours in economics.

<sup>4/</sup>In Option III, T.A.M. 150 and 211 may be counted toward Group V.



This report is a summary of the work done by the Bureau of Education for the Handicapped during the year 1940-1941. It is divided into two main parts: a general statement of the work of the Bureau and a detailed statement of the work of the various divisions. The general statement is divided into three sections: a statement of the work of the Bureau as a whole, a statement of the work of the various divisions, and a statement of the work of the various divisions in the field of education for the handicapped. The detailed statement is divided into four sections: a statement of the work of the various divisions in the field of education for the handicapped, a statement of the work of the various divisions in the field of research, a statement of the work of the various divisions in the field of administration, and a statement of the work of the various divisions in the field of public relations.

The work of the Bureau of Education for the Handicapped during the year 1940-1941 was characterized by a continued effort to improve the education of the handicapped. This was done through a variety of means, including the development of new methods of instruction, the improvement of existing methods, and the provision of new facilities for the education of the handicapped. The work of the Bureau was also characterized by a continued effort to secure the cooperation of the various State and local educational agencies in the education of the handicapped.

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Division	Work Done	Amount
General	General statement of the work of the Bureau	100
Research	Research in the field of education for the handicapped	200
Administration	Administration of the Bureau	300
Public Relations	Public relations work of the Bureau	400
Field	Field work of the Bureau	500
Total	Total work of the Bureau	1,500

The work of the Bureau of Education for the Handicapped during the year 1940-1941 was also characterized by a continued effort to secure the cooperation of the various State and local educational agencies in the education of the handicapped. This was done through a variety of means, including the development of new methods of instruction, the improvement of existing methods, and the provision of new facilities for the education of the handicapped.



Agricultural Science Curriculum  
Sample programs for first year

Option I

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Agr. 100--Lect. for Freshmen	0	Chem. 105--Inorganic Chem. and Qualitative Analysis, or Chemistry 106--Inorganic Chemistry	5
Chem. 101 or 102--General Chemistry	5 or 3	Math. 114--Plane Trigonometry <sup>1/</sup>	2
Math. 111 or 112--College Algebra <sup>1/</sup>	5 or 3	Rhet. 102--Rhet. & Comp.	3
Rhet. 101--Rhet. & Comp.	3	Physical Education	(1)
Physical Education	(1)	Military (men)	1
Military (men)	1	Electives	4 to 6
Electives	3 to 5	Total	16 to 18
Total	16 to 18		

Option II

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Agr. 100--Lect. for Freshmen	0	Botany 100--General Botany	4
Agr. Econ. 100--Introductory Agricultural Economics	3	Math. 114--Plane Trigonometry or Chem. 101--General Chem. <sup>1/</sup>	2 to 5
Math. 111 or 112--College Algebra or Math. 114--Plane Trigonometry <sup>1/</sup>	5, 3 or 2	Rhet. 102--Rhet. & Comp.	3
Rhet. 101--Rhet. & Comp.	3	Physical Education	(1)
Physical Education	(1)	Military (men)	1
Military (men)	1	Agricultural electives	3 to 4
Electives	3 to 6	Total	15 to 18
Total	16 to 18		

Second, Third, and Fourth Years<sup>2/</sup>

The programs for the second, third, and fourth years must be planned in consultation with the student's faculty adviser.<sup>2/</sup>

Total required for graduation . . . . . 126

Students interested in combined programs of Agriculture and Agricultural Engineering should see pages 52-53-54. Those interested in combining Agriculture and Law should see pages 56-57.

- <sup>1/</sup> Students who pass the mathematics placement examination in algebra or in both algebra and trigonometry may omit beginning courses in mathematics and enroll in more advanced courses. Students planning to take advanced work in chemistry may take Math. 117 and 127 instead of the indicated mathematics courses.
- <sup>2/</sup> No student may enter the Agr. Sci. Curriculum for the first time after the beginning of his senior year in college except by petition.

TABLE I

Year	Number of cases	Number of deaths	Number of recoveries
1910	10	2	8
1911	15	3	12
1912	20	4	16
1913	25	5	20
1914	30	6	24
1915	35	7	28
1916	40	8	32
1917	45	9	36
1918	50	10	40
1919	55	11	44
1920	60	12	48

TABLE II

Year	Number of cases	Number of deaths	Number of recoveries
1921	65	13	52
1922	70	14	56
1923	75	15	60
1924	80	16	64
1925	85	17	68
1926	90	18	72
1927	95	19	76
1928	100	20	80
1929	105	21	84
1930	110	22	88

Source: University of Chicago Library

The figures in the above table are based on the records of the University of Chicago Library and are not intended to be taken as a basis for comparison with other institutions.

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Agricultural Science Curriculum  
Option III  
5-Year Combined Program in  
Agricultural Science and Agricultural Engineering  
(for the degrees, Bachelor of Science in Agriculture  
and Bachelor of Science in Agricultural Engineering)

First Year  
(Enroll in College of Agriculture)

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Agric. 100--Lectures for Freshmen	0	Chem. 104--Chemistry of Metallic Elements <sup>1/</sup>	4
Chem. 102 or 103--General Chem. <sup>1/</sup>	3 or 4	G.E. 101--Engr. Graph. Commun.	3
Eng. 100--Engineering Lectures	0	Math. 123--Analytical Geometry	5
Math. 111 or 112--Coll. Alg. <sup>2/</sup>	5 or 3	Rhet. 102--Rhetoric and Comp.	3
Math. 114--Plane Trig. <sup>2/</sup>	2	Physical Education	(1)
Rhet. 101--Rhetoric and Comp.	3	Military (men)	1
Physical Education	(1)		
Military (men)	1		
Total	13 to 16	Total	17

Second Year

Agr. Eng. 146--Farm Tractors	2	Agr. Eng. 156--Surveying and Soil and Water Engineering	3
Botany 100--General Botany	4	Math. 143--Calculus	5
Math. 133--Calculus	3	Physics 107--General Physics (Heat, Elect., Magnetism)	4
Physics 106--General Physics (Mechanics)	4	T.A.M. 150--Statics	2
Speech 101--Effective Speaking	3	Physical Education	(1)
Physical Education	(1)	Military (men)	1
Military (men)	1	Elective <sup>3/</sup>	0-3
Total	18	Total	16 to 19

Third Year

Agr. Eng. 236--Farm Machine Characteristics and Mechanisms	2	Agron. 121--Crop Production	4
Physics 108--General Physics (Sound, Light, Mod. Phy.)	4	Agr. Econ. 220--Farm Management	3
G.E. 102--Engr. Geometry	3	Econ. 108--Elem. of Econ.	3
T.A.M. 211--Dynamics	3	T.A.M. 221--Elementary Mechanics of Deformable Bodies	3
Math. 345--Differential Equations and Orthogonal Functions		T.A.M. 223--Mechanical Behavior of Solids	1
Or		Elective <sup>3/</sup>	3
Math. 263--Statistics in Engineering and Physical Sciences	3	Total	17
Elective <sup>3/</sup>	3		
Total	18		



The following information is being furnished to you for your information and use only. It is not to be distributed outside your organization. The information is being furnished to you for your information and use only. It is not to be distributed outside your organization.

(Total in dollars of 1964)

Item	Amount	Item	Amount
1. General Administration	100.00	1. General Administration	100.00
2. Personnel	200.00	2. Personnel	200.00
3. Materials	300.00	3. Materials	300.00
4. Travel	400.00	4. Travel	400.00
5. Postage and Freight	500.00	5. Postage and Freight	500.00
6. Telephone	600.00	6. Telephone	600.00
7. Printing	700.00	7. Printing	700.00
8. Reproduction	800.00	8. Reproduction	800.00
9. Miscellaneous	900.00	9. Miscellaneous	900.00
10. Total	1,000.00	10. Total	1,000.00
11. General Administration	100.00	11. General Administration	100.00
12. Personnel	200.00	12. Personnel	200.00
13. Materials	300.00	13. Materials	300.00
14. Travel	400.00	14. Travel	400.00
15. Postage and Freight	500.00	15. Postage and Freight	500.00
16. Telephone	600.00	16. Telephone	600.00
17. Printing	700.00	17. Printing	700.00
18. Reproduction	800.00	18. Reproduction	800.00
19. Miscellaneous	900.00	19. Miscellaneous	900.00
20. Total	1,000.00	20. Total	1,000.00
21. General Administration	100.00	21. General Administration	100.00
22. Personnel	200.00	22. Personnel	200.00
23. Materials	300.00	23. Materials	300.00
24. Travel	400.00	24. Travel	400.00
25. Postage and Freight	500.00	25. Postage and Freight	500.00
26. Telephone	600.00	26. Telephone	600.00
27. Printing	700.00	27. Printing	700.00
28. Reproduction	800.00	28. Reproduction	800.00
29. Miscellaneous	900.00	29. Miscellaneous	900.00
30. Total	1,000.00	30. Total	1,000.00

Fourth Year  
(May transfer to Engineering)

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Agron. 202 - Soils	4	Agr. Eng. 276 - Des. of Farm Struct.	3
E.E. 220 - Basic Elect. Eng.	3	Agr. Eng. 286 - Elect. in Agr.	2
M.E. 209 - Thermodynamics	3	T.A.M. 232 - Fluid Mechanics	3
Option	5	T.A.M. 234 - Fluid Mechanics (lab)	1
Elective <sup>3/</sup>	<u>3</u>	Option	3
		Elective <sup>3/</sup>	<u>6</u>
Total	18	Total	<u>18</u>

Fifth Year  
(Must be enrolled in Engineering)

Agr. Eng. 298 - Inspection trip	0	Agr. Eng. 396 - Special problems	3
Option	9	Option	3
Elective <sup>3/</sup>	<u>9</u>	Elective <sup>3/</sup>	<u>8 or 9</u>
Total	<u>18</u>	Total	<u>14 to 15</u>

OPTIONS - each student will select one of the following groups:

	Hours
<b>Farm Electrification and Processsing</b>	
Agr. Eng. 287 - Electricity in Agriculture (Advanced Course) . . . . .	3
Agr. Eng. 387 - Agricultural Process Engineering. . . . .	3
Technical Elective. . . . .	8 or 6
C.E. 261 - Theory of Determinate Structures and	
Agr. Eng. 277 - Design of Concrete and Steel Structures in Agriculture	
OR	
M.E. 221 - Mechanics of Machinery and	
M.E. 224 - Design of Machine Elements. . . . .	<u>6 or 8</u>
	20
<b>Power and Machinery</b>	
Agr. Eng. 336 - Design of Agricultural Machinery. . . . .	3
Agr. Eng. 346 - Farm Power. . . . .	3
M.E. 221 - Mechanics of Machinery. . . . .	5
M.E. 224 - Design of Machine Elements. . . . .	3
M.E. 234 - Heat Treatment of Metals. . . . .	3
M.E. 271 - Design of Machine Elements. . . . .	<u>3</u>
	20
<b>Soil and Water</b>	
Agr. Eng. 277 - Design of Concrete and Steel Structures in Agriculture.	3
Agr. Eng. 357 - Land Drainage . . . . .	3
Agr. Eng. 356 - Soil Conservation Structures. . . . .	3
C.E. 261 - Theory of Determinate Structures. . . . .	3
C.E. 262 - Theory of Indeterminate Structures. . . . .	3
Technical Elective. . . . .	<u>5</u>
	20

Year	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100																																																																																																																																																
1950	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295



**Farm Structures**

Agr. Eng. 277 - Design of Concrete and Steel Structures in Agriculture. . . . .	3
Agr. Eng. 376 - Advanced Design of Farm Structures. . . . .	3
C. E. 261 - Theory of Determinate Structures. . . . .	3
C. E. 262 - Theory of Indeterminate Structures. . . . .	3
Agr. Eng. Elective. . . . .	3
Technical Elective . . . . .	5
	<u>20</u>

- 1/ Students in the upper 1/4 of their high school class who have had one year of high school chemistry may take Chem. 109, 5 hours, to complete their chemistry requirements.
- 2/ Students with three to four years of high school mathematics, including trigonometry, and a satisfactory grade on the mathematics placement tests may take Mathematics 123 the first semester and follow the Common Program for Freshmen in the College of Engineering. This may require three additional hours of physical science to meet graduation requirements.
- 3/ Electives must include the following:
  1. 9 hours of agriculture, other than Agricultural Engineering, Agronomy 121 and 202, and Agricultural Economics 220.
  2. 6 hours of biological science in addition to Botany 100 (botony, entomology, microbiology, physiology, and zoology).
  3. 6 hours of humanities<sup>4/</sup> (art, language, literature, music, philosophy, and religion).
  4. 3 hours of social science<sup>4/</sup> in addition to Economics 108 (anthropology, economics, finance, geography, history, political science, psychology, and sociology).
  5. 2 hours of either humanities or social sciences<sup>4/</sup> in addition to the 12 hours specified in 3. and 4. above to satisfy College of Engineering requirements.
  6. Sufficient open electives to total the minimum curriculum requirement of 165 hours including basic military and exclusive of physical education. All requirements of the combined curriculum as outlined must be completed to satisfy the requirements for a degree in Agriculture.
- 4/ Since the list of courses which the College of Engineering and the College of Agriculture accept for humanities and social sciences varies somewhat, students in this program should be careful to select those which are acceptable to both colleges.

NOTE: Students must maintain a 3.5 grade average to continue in and graduate from the Agricultural Science curriculum. Those whose average falls below this requirement must transfer to the 4-year program in the College of Engineering if they wish to obtain a degree in Agricultural Engineering or to the general curriculum in Agriculture if they wish to obtain a degree in Agriculture.

1. Introduction

The purpose of this study is to investigate the relationship between the variables X and Y. The study is based on a sample of 100 subjects. The results of the study are presented in the following sections.

The first section describes the methodology used in the study. The second section presents the results of the study. The third section discusses the implications of the findings.

The study was conducted using a random sample of 100 subjects. The results of the study are presented in the following sections. The first section describes the methodology used in the study. The second section presents the results of the study. The third section discusses the implications of the findings.

2. Methodology

The study was conducted using a random sample of 100 subjects. The results of the study are presented in the following sections. The first section describes the methodology used in the study. The second section presents the results of the study. The third section discusses the implications of the findings.

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NAME \_\_\_\_\_  
DATE \_\_\_\_\_

- 1/ In Option III, a maximum of fifteen hours of agricultural engineering courses may be credited toward the degree in Agriculture.
- 2/ Students in Option II must include at least 8 semester hours in Economics.
- 3/ All students in Options I and III must complete a total of 45 semester hours in Groups IV and V combined with a minimum of 10 hours in each.
- 4/ In Option III, T.A.M. 150 and 211 may be counted toward Group V.

126 hours, including military and excluding P.E., are required for the degree as outlined above. To enroll in this curriculum, freshmen must rank in the upper half of their high school graduating class; transfer students must have an average of 3.5 or higher. A minimum average of 3.5 is required for graduation.





### Six-Year Program in Agriculture and Law

A plan exists between the College of Agriculture and the College of Law by which a student may earn the degree of Bachelor of Science in Agriculture and the degree of Bachelor of Laws in six years. In this case the student must plan carefully so as to include all prescribed courses in agriculture during the first three years, after which he transfers to the College of Law for the fourth year. He may thus receive the agricultural degree at the end of the fourth year and the law degree at the end of the sixth year. This program can best be fitted into the Agricultural Science Curriculum under Option II.

The following listing of courses is intended as a guide. Other courses may be substituted in some cases for those listed here; however, completion of the courses as shown will assure that the student meets all requirements for the degree in the Agricultural Science Curriculum, Option II (see page 51). Students following this program should ask to be assigned an adviser for the six-year program in agriculture and law.

#### SUGGESTED AGRICULTURAL SCIENCE PRE-LAW CURRICULUM (for the degree, Bachelor of Science in Agriculture)

(Six semesters in agriculture--six semesters in law)

##### A. Required courses

Rhetoric	6	
Military	4	
Physical Education	(4)	10

##### B. Suggested courses to meet requirements of 35 hours in agriculture (Group I)

Agriculture 100 (required of all freshmen)	0
Agricultural Economics 100, 220, 230, 302	12
Agricultural Engineering 111	3
Agromony 121 and 201	9
Animal Science 100, 102	6
Dairy Science 100	3
Horticulture 100	3

(Students interested in Agricultural Economics 200--Special Problems in Agricultural Law, should consult with their adviser.)

##### C. Suggested courses to meet requirements of 44 hours from Groups II through V (Minimum of 6 hours in Groups II and IV; minimum of 16 hours in Groups III and V)

###### Group II Courses

Philosophy 102 or 104	3 to 4
Humanities electives	2 to 3





## SUGGESTED AGRICULTURAL SCIENCE PRE-LAW CURRICULUM--Continued

## Group III

Economics 108, 109, and Finance 250 (8 hours  
required)

Political Science 150

Psychology 100

9  
3  
4

16

## Group IV Courses - two of the following

Zoology 104, or Botany 100, or

Entomology 101

7 or 8

## Group V Courses

Chemistry 101 or 111, and 132

Geology 101 or 105, and 240

Math. Electives

Physics 101 and 102

16

D. Suggested Open Electives

Speech 101

Accountancy 201

3  
36

Total hours in three years. . . . . 96

Law courses to complete requirement for degree. . . . . 30

Total Required for Degree in Agriculture. . . . . 126

NOTE: The 96 hours would be completed during the six semesters in agriculture. Completion of at least 30 hours in law school during the fourth year would qualify the student for graduation from the College of Agriculture. To remain in and graduate from this curriculum, each student must maintain an over-all average of at least 3.5, including courses taken in the College of Law and counted toward the completion of this degree.



**DAIRY TECHNOLOGY CURRICULUM**  
(for the degree of Bachelor of Science in Dairy Technology)

The following program is designed for students interested in the business and technological aspects of dairy manufacturing or in research or teaching in the field of dairy technology. A minimum of 126 hours of credit, excluding P.E., is required for graduation. All students specializing in dairy technology are expected to take an inspection trip in either the junior or the senior year. This trip costs about \$35.

First Year

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Agr. 100--Lect. for Freshmen	0	Chem. 105--Inorg. Chem. and Qualitative Analysis	5
Chem. 101 or 102--Gen. Chem.	5-3	Rhet. 102--Rhetoric and Comp.	3
D.S. 100--Introd. to Dairy Prod.	3	Speech 101--Prin. of Effective Speaking	3
Math. 111 or 112 <sup>1</sup> --Col. Algebra	5-3	Physical Education	(1)
Rhet. 101--Rhetoric and Comp.	3	Military (men)	1
Physical Education	(1)	Electives	3
Military (men)	1		
<b>Total</b>	<b>14-18</b>	<b>Total</b>	<b>16</b>

Second Year

Chem. 133--Elem. Org. Chem.	5	Mcbio. 100 & 101--Intro. Mcbio. or Da. Sci. 150 & 151--Gen. Da. Bact.	5
D. T. 101--Introd. to Da. Tech.	3	D. T. 102--Quality Evaluation of Dairy Products	3
Econ. 108--Elements of Economics	3	Physical Education	(1)
Physical Education	(1)	Military (men)	1
Military (men)	1	Electives (Group I or II)	6
Elective (Group I or II)	3		
<b>Total</b>	<b>16</b>	<b>Total</b>	<b>16</b>

Third Year

D.T. 211--Bacteriological Control of Dairy Plants	4	Accy. 201 <sup>2</sup> --Fund. of Account.	3
Rhet. 151--Bus. Letter Writing	3	D.T. 213--Tech. Control of Dairy Products	3
Electives (Groups I and II)	9	D.T. 310--Dairy Prod. Proc.	4
		Electives (Groups I and II)	6
<b>Total</b>	<b>16</b>	<b>Total</b>	<b>16</b>

Fourth Year

D.T. 311--Dairy Prod. Proc.	4	Electives	17
Electives	12		
<b>Total</b>	<b>16</b>	<b>Total</b>	<b>17</b>

<sup>1</sup>/ Students who pass the mathematics placement test are not required to take a mathematics course; all others must take either Math. 111 or Math. 112.

<sup>2</sup>/ Students interested in business management should take Accy. 101 and 105.





## DAIRY TECHNOLOGY CURRICULUM--Continued

Group I electives: A minimum of 15 hours, at least 6 of which must be in courses above the 100 level, to be selected from science (chemistry, mathematics, microbiology, and physics) or commerce (accountancy, business law, economics<sup>1/</sup>, finance<sup>1/</sup>, management, and marketing).

Group II electives: A minimum of nine hours in humanities and social sciences, to be selected from anthropology, art, economics<sup>1/</sup>, finance<sup>1/</sup>, foreign language, geography, history, landscape architecture, literature, music, philosophy, political science, psychology, religion, sociology, or speech.

Electives in the third and fourth years, chosen with the assistance of an adviser, can provide a background of general business training, a special knowledge of some business field, or a basis for graduate work in preparation for research.

<sup>1/</sup> Students who select economics or finance courses in fulfillment of Group I or II may not count the same course in both groups.

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**CURRICULUM IN DAIRY TECHNOLOGY**  
(for degree of B.S. in Dairy Technology)

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_  
DATE \_\_\_\_\_

PREScribed COURSES	CREDIT	GRADE	Group I--A minimum of 15 hours is required from science (chem., math., mcbio., and physics or commerce (accy., bus. law., econ. <u>2</u> /, fin. <u>2</u> /, mgmt., and mktg.). At least 6 of the 15 hours must be above the 100 level.			
Agric. 100	0					
Accy. 201 or Accy 101 <u>and</u> 105 <u>1</u> /	3 3-3					
Bact. 104 or Da. Sci. 150 <u>and</u> 151	5 2-3					EARNED
Chem. 101 or 102	5-3					
Chem. 105	5					TO BE
Chem. 133	5					EARNED
Da. Sci. 100	3					
Da. Tech. 101	3					
Da. Tech. 102	3					
Da. Tech. 211	4					
Da. Tech. 213	3					
Da. Tech. 310	4					
Da. Tech. 311	4					
Econ. 108	3					
Math. 111 or 112 or Math. Placement Test	5-3					
Rhet. 101	3					
Rhet. 102	3					
			Group II--HUMANITIES AND SOCIAL SCIENCES-- Minimum of 9 hours from anthro., art, econ. <u>2</u> /, fin. <u>2</u> /, for. lang., geog., hist., land. arch., lit., music, phil., pol. sci., psych., religion, soc., and speech			
				CREDIT	GRADE	EARNED
						TO BE
						EARNED
			OPEN ELECTIVES			
						TOTAL HR.
Rhet. 151	3					
Speech 101	3					
Military	1					
Military	1					
Military	1					
Military	1					
P.E.	(1)					
P.E.	(1)					
P.E.	(1)					
P.E.	(1)					

126 hours, including military and excluding physical education, are required for the degree as outlined above. A minimum average of 3.0 is required for graduation. Effective Aug. 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at the U. of I. and a combined average of 3.0 for transfer and U. of I. work.

1/ Students interested in business management should take Accy. 101 and 105.

2/ Students who select economics or finance courses in fulfillment of Group I or II may not count the same course in both groups.

CONSTITUTIONAL HISTORY OF THE UNITED STATES  
(Continued from page 101)

1800  
1801

THE CONSTITUTION OF THE UNITED STATES  
AS AMENDED

ARTICLE I		ARTICLE II		ARTICLE III		ARTICLE IV		ARTICLE V		ARTICLE VI	
Section 1	Section 2	Section 1	Section 2	Section 1	Section 2	Section 1	Section 2	Section 1	Section 2	Section 1	Section 2
1. All legislative Powers herein granted shall be vested in a Congress of the United States, which shall consist of a Senate and House of Representatives.	2. The House of Representatives shall be composed of Members chosen every second Year by the People of the several States, and the Electors in each State shall have the Qualifications requisite for Electors in that State.	1. The executive Power shall be vested in a President of the United States.	2. The President shall hold Office for Years, but no Person shall be elected to that Office more than twice.	1. The judicial Power shall extend to all Cases of Law and Equity arising under the Constitution and the Laws of the United States, to all Cases affecting Ambassadors, Consuls, and other public Ministers and Consuls, to all Cases of Admiralty and Maritime Jurisdiction, to all Cases of Controversy between two or more States, between a State and Citizens of another State, between Citizens of different States, between Citizens of the same State claiming Lands under Grants of different States, and between a State, or the Citizens thereof, and foreign States, Citizens, or Subjects.	2. The Judges, both of the supreme and inferior Courts, shall hold Office during good Behaviour, and shall, at any Time during their Continuance in Office, enjoy the same Compensation.	1. The Senators and Representatives before Congress, and the Members of the several State Legislatures, and all Representatives and Members of Congress elected before 1792, and all Senators and Representatives before Congress, and all Members of the several State Legislatures, and all Representatives and Members of Congress elected before 1792, and all Senators and Representatives before Congress, and all Members of the several State Legislatures, and all Representatives and Members of Congress elected before 1792, shall be bound by Oath or Affirmation, to support this Constitution.	2. The Senators and Representatives before Congress, and the Members of the several State Legislatures, and all Representatives and Members of Congress elected before 1792, and all Senators and Representatives before Congress, and all Members of the several State Legislatures, and all Representatives and Members of Congress elected before 1792, shall be bound by Oath or Affirmation, to support this Constitution.	1. The Congress shall have Power to lay and collect Taxes, Duties, Imposts and Excises, to pay the Debts and provide for the common Defence and general Welfare of the United States; but all Duties, Imposts and Excises shall be uniform throughout the United States.	2. The Congress shall have Power to borrow Money on the Credit of the United States, to regulate Commerce with foreign Nations, to regulate Commerce among the several States, and to regulate Commerce with the Indian Tribes.	1. The President shall be elected by the Electors in each State, and the Electors in each State shall have the Qualifications requisite for Electors in that State.	2. The President shall hold Office for Years, but no Person shall be elected to that Office more than twice.

The Constitution of the United States is a document of great importance, and it is the duty of every citizen to know its contents. The Constitution is the foundation of our government, and it is the source of all our laws. It is the duty of every citizen to support the Constitution, and to defend it against all attacks. The Constitution is the cornerstone of our democracy, and it is the basis of our freedom. It is the duty of every citizen to uphold the Constitution, and to ensure that it remains the foundation of our government.



## CURRICULUM IN FLORICULTURE AND ORNAMENTAL HORTICULTURE

(For the Degree of Bachelor of Science in Floriculture and Ornamental Horticulture)

The curriculum in Floriculture and Ornamental Horticulture is intended primarily for students preparing to produce and/or market flower crops, nursery products, and other ornamentals; engage in floricultural service activities; or do teaching and research in this field.

More specifically, students may seek training in the respective field of specialization noted below or in other closely related areas:

1. Production of flower crops and other ornamentals, both indoors and out.
2. Greenhouse management and operation.
3. Nursery and turf management and production.
4. Flower shop management and floral designing.
5. Retail and wholesale marketing of floricultural specialties.
6. Floricultural and ornamental horticultural service, including extension work, industrial consulting, journalism, municipal park employment, quarantine service employment, sales, etc.
7. Preparation for advanced studies leading to academic positions in teaching, research, and extension; executive, supervisory, or research positions with commercial firms; and various other floricultural and ornamental horticultural service activities.

A minimum of 130 hours of credit is required for graduation, exclusive of physical education (4 hours). Requirements have been kept at a minimum to allow the individual student to progress in the field of his particular interest under the close guidance of his adviser. All students in this curriculum will follow a common first-year program.

More complete information and sample programs for various areas of specialization may be obtained at 100 Floriculture Building, Urbana, Illinois.

Students in this curriculum are required to make at least one inspection trip to commercial establishments before graduation. The trip costs about \$35.00. Students are also advised and encouraged to acquire practical experience through employment in florist or nursery establishments during vacation periods.

Summary of Requirements

	<u>Hours</u>
General University Requirements. . . . .	10
Freshman Year (Excluding General University Requirements and Electives). .	13-17
Group I Requirements (Horticulture) <sup>1/</sup> . . . . .	27
Group II Requirements (Humanities and Social Sciences) . . . . .	15
Group III Requirements (Biological and Physical Sciences) <sup>2/</sup> . . . . .	16
Group IV Requirements (Supporting Courses) . . . . .	20
Electives. . . . .	25-29
Total Hours	130

<sup>1/</sup> 3 additional hours of horticulture included in freshman year.

<sup>2/</sup> 10-14 additional hours of biological and physical sciences included in freshman year.



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### Department of Education

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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COMMON FIRST-YEAR PROGRAMFirst SemesterHours

Agr. 100 - Lectures for Freshmen in Agriculture. . . . .	0
Bot. 100 - General Botany. . . . .	4
Hort. 122 - Greenhouse Management. . . . .	3
Math. 111, Algebra; Math. 112, College Algebra, or Math. 104, Elements of Algebra and Trigonometry <sup>3/</sup> . . . . .	3 or 5
Rhet. 101 - Freshman Rhetoric and Composition. . . . .	3
Mil. Sci. (Men). . . . .	1
P. E. . . . .	(1)
Elective . . . . .	0 - 3
	<u>15 - 18</u>

Second Semester

Chem. 100, 102, or 111 - General Chemistry . . . . .	3 or 5
Rhet. 102 - Freshman Rhetoric and Composition. . . . .	3
Mil. Sci. (Men) . . . . .	1
P. E. . . . .	(1)
Electives. . . . .	6 - 8
	<u>14 - 18</u>

Group I REQUIREMENTS - Horticulture: A minimum of 27 hours will be selected from this list:

Hort. 221 - Plant Propagation (I). . . . .	3
Hort. 223 - Floricultural Crops Production (I) <sup>4/</sup> . . . . .	3
Hort. 224 - Floricultural Crops Production (II) <sup>4/</sup> . . . . .	3
Hort. 225 - Ornamental Gardening (I) . . . . .	3
Hort. 226 - Bedding and Foliage Plants (II) <sup>4/</sup> . . . . .	3
Hort. 230 - Garden Flowers (II) <sup>4/</sup> . . . . .	3
Hort. 231 - Floral Decorations (I) <sup>4/</sup> . . . . .	3
Hort. 232 - Advanced Floral Decorations and Flower Shop Management (II) <sup>4/</sup> . . . . .	3
Hort. 234 - Nursery Management (II) <sup>4/</sup> . . . . .	3
Hort. 236 - Turf Management (II) <sup>4/</sup> . . . . .	3
Hort. 242 - Vegetable Crops Production (II). . . . .	3
Hort. 262 - Tree and Small Fruit Culture (I) . . . . .	3
Hort. 321 - Floricultural Physiology (I) . . . . .	3
Hort. 322 - Plant Nutrition (II) . . . . .	3

<sup>3/</sup> Students in this curriculum are required to complete either Math. 111, Algebra, 5 hours; Math. 112, College Algebra; 3 hours, or Math. 104, Elements of Algebra and Trigonometry, 3 hours, or pass the placement examination in mathematics. Math. 104 does not serve as a prerequisite for more advanced courses in mathematics. Students who enter this curriculum with acceptable equivalent college credit in algebra are not required to take the placement examination or additional mathematics.

<sup>4/</sup> Offered in alternate years only.

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101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200
101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200

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THE UNIVERSITY OF CHICAGO



**Group II REQUIREMENTS - Humanities and Social Sciences:** A minimum of 15 hours will be selected from these subject-matter areas, including Economics 108 and Speech 101:

Anthropology, Art, Economics, Finance, Foreign Languages, Geography, History, Literature, Music, Philosophy, Political Science, Psychology, Religion, Sociology, and Speech.

Students contemplating continuation of their studies for an advanced degree are encouraged to elect one of the foreign languages, preferably French or German.

**Group III REQUIREMENTS - Biological and Physical Sciences:** A minimum of 16 hours will be selected from this group, including at least one course in chemistry:

A. Biological Sciences: A minimum of 6 hours, representing at least two different departments.

	<u>Hours</u>
Bot. 130 - Plant Physiology (I). . . . .	5
Bot. 160 - Introductory Plant Taxonomy (II). . . . .	3
Entom. 101 - Agricultural Entomology (I,II). . . . .	3
Hort. 110 - Plant and Animal Genetics (I,II). . . . .	3
Mcbio. 100 & 101 - Intro. Mcbio. (I,II). . . . .	3
Plant. Path. 204 - Intro. Plant Pathology (II) <u>or</u> 301, Plant Path. (I). . . . .	3

B. Physical Sciences: A minimum of 6 hours, representing at least two different departments, including at least one course in chemistry.

Chem. 105 - Inorganic Chemistry and Qualitative Analysis (I,II). . .	5
Chem. 122 - Elementary Quantitative Analysis (I,II). . . . .	5
Chem. 132 - Elementary Organic Chemistry (I,II). . . . .	3 <sup>5/</sup>
Chem. 133 - Elementary Organic Chemistry (I,II). . . . .	5
Geol. 105 - Agricultural Geology (I,II). . . . .	4
Math. 114 - Plane Trigonometry (I,II). . . . .	2
Physics 101 - General Physics (I). . . . .	5
Physics 102 - General Physics (II). . . . .	5

<sup>5/</sup> Chemistry 132 is a terminal course and will not serve as the organic prerequisite for more advanced courses in chemistry, such as biochemistry and others.

THE UNITED STATES OF AMERICA  
DO hereby certify that the following is a true and correct copy of the original as the same appears on file in the Department of the Interior, Bureau of Land Management, at Washington, D.C.

AND that the same is a true and correct copy of the original as the same appears on file in the Department of the Interior, Bureau of Land Management, at Washington, D.C.

IN WITNESS WHEREOF, the Secretary of the Interior has hereunto set his hand and the seal of the Department of the Interior, at Washington, D.C., this 1st day of January, 1919.

SECRETARY OF THE INTERIOR

UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
WASHINGTON, D.C.

FILED FOR RECORD IN THE OFFICE OF THE SECRETARY OF THE INTERIOR, DEPARTMENT OF THE INTERIOR, AT WASHINGTON, D.C., THIS 1ST DAY OF JANUARY, 1919.

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Approved and sent by special order of the Secretary of the Interior, this 1st day of January, 1919.

Group IV REQUIREMENTS - Supporting Courses: A minimum of 20 hours will be selected from this group of courses:

	<u>Hours</u>
Accy. 101 - Principles of Accounting (I,II) . . . . .	3
Accy. 105 - Accounting Procedure (I,II) . . . . .	3
Accy. 106 - Elementary Cost Accounting (I,II) . . . . .	3
Accy. 108 - Intermediate Accounting (I,II) . . . . .	3
Accy. 201 - Fundamentals of Accounting (I,II) . . . . .	3
Agr. Ec. 230 - Marketing of Agricultural Products (I,II) . . . . .	3
Agron. 201 - Soils (I,II) . . . . .	5
Agron. 306 - Fertilizers and Their Soil Reaction (I) . . . . .	3
Agron. 308 - Plant Composition and Chemurgy (II) . . . . .	3
Agron. 326 - Weeds and Their Control (I) . . . . .	3
Bot. 303 - Comparative Morphology: Vascular Plants (II) . . . . .	3
Bot. 322 - Genetics (I) . . . . .	4
Bot. 340 - Histological Technic (II) . . . . .	5
Bot. 345 - Plant Anatomy (I) . . . . .	4
Bot. 381 - Plant Ecology (I) . . . . .	3
Bus. Law 100 - Basic Principles of Business Law (I,II) . . . . .	3
Chem. 350 - General Biochemistry (I,II) . . . . .	3
Chem. 354 - Introduction to Biochemistry (I) . . . . .	5
Chem. 355 - Biochemistry Laboratory (I,II) . . . . .	3
Forestry 262 - Control of Forest Pests and Hazards (I) . . . . .	3
Hort. 382 - Improvement of Horticultural Crops by Breeding (II) . . . . .	3
L. A. 164 - Appreciation of Landscape Architecture (II) . . . . .	3
L. A. 251 - Trees and Shrubs (I) . . . . .	3
L. A. 252 - Trees and Shrubs (II) . . . . .	3
Mktg. 101 - Principles of Marketing (I,II) . . . . .	3
Mktg. 211 - Principles of Retailing (I,II) . . . . .	3
Mktg. 212 - Retail Sales Promotion (I,II) . . . . .	2
Mktg. 271 - Salesmanship (I,II) . . . . .	2
Mktg. 281 - Introduction to Advertising (I,II) . . . . .	3
Mktg. 282 - Advertising Procedures (I,II) . . . . .	3
Mktg. 288 - Sales Writing (I,II) . . . . .	2
Mktg. 315 - Retail Buying (I,II) . . . . .	2
Mktg. 345 - Credits and Collections (I,II) . . . . .	3
Plant Path. 202 - Forest Pathology (II) . . . . .	3
Rhet. 151 - Business Letter Writing (I,II) . . . . .	3
Rhet. 246 - Modern English Grammar (I,II) . . . . .	3





**CURRICULUM IN FLORICULTURE AND ORNAMENTAL HORTICULTURE**  
(for degree of B. S. in Floriculture and Ornamental Horticulture)

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_

DATE \_\_\_\_\_

PREScribed COURSES	CREDIT	GRADE	Group III: Biological and Physical Sciences.	CREDIT	GRADE
Agric. 100	0		Minimum of 16 hours		
Botany 100	4		Biological Sciences: A minimum of 6 hours from at least two departments: Bot. 130, 160, Entom. 101, Hort. 110, Mbio. 100, 101, Plant Path. 204 or 301		
Chem. 101, 102 or 111	5-3				
Hort. 122	3				
Math. Placement Test or Math. 111, 112, or 104	3-5		Physical Sciences: A minimum of 6 hours from at least two departments including one or more courses in chem. Chem. 105, 122, 132, 133; Geol. 105; Math. 114; Physics 101, 102.		
Rhet. 101	3				
Rhet. 102	3				
Mil.-Mil.	1-1				
Mil.-Mil.	1-1		Group IV: A minimum of 20 hours from: Accy. 101, 105, 106, 108, or 201; Agr. Ec. 230; Agron. 201, 306, 308, 326; Bot. 303, 322, 340, 345, 381; Bus. Law 100; Chem. 350 and 355, or 354; For. 262; Hort. 382; L.A. 164, 251, 252, Mktg. 101, 211, 212, 271, 281, 282, 288, 315, 345; Plant Path. 202; Rhet. 151, 246.		
P.E.-P.E.	(1-1)				
P.E.-P.E.	(1-1)				
Group I: Horticulture A minimum of 27 hours from: Hort. 221, 223, 224, 225, 226, 230, 231, 232, 234, 236, 242, 262, 321, 322					
Group II: Humanities and Social Sciences A minimum of 15 hours from: anthro., art, econ., finance, for. lang., geog., hist., lit., music, phil., pol. sci., psych., religion, soc., and speech. MUST INCLUDE: Econ. 108 Speech 101			OPEN ELECTIVES		
		3 3			TOTAL HOURS

130 hours, including military and excluding P.E., are required for the degree as outlined above. A minimum average of 3.0 is required for graduation. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at U. of I. and combined average of 3.0 for transfer and U. of I. work.





**FOOD TECHNOLOGY CURRICULUM**  
(for the degree, Bachelor of Science in Food Technology)

This program is designed for students who wish to prepare for employment as food production, quality control, research, or technical sales workers in governmental agencies, educational institutions, and such food-processing industries as canning, freezing, fermenting, milling and baking, vegetable oil processing, and confection manufacturing. A total of 130 hours of credit is required for graduation, exclusive of physical education and the first two years of military training. Students are strongly urged to engage in at least one summer of employment in selected food-processing industries and are required to go on a senior inspection trip of three days' duration. This trip costs about \$35.

First Year

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Agric. 100--Lect. for Freshmen	0	Botany 100--General Botany	4
Chem. 101 or 102--Gen. Chem.	5-3	Chem. 105--Inorganic Chemistry	5
D.G.S. 111--Verbal Communication	4	and Qualitative Analysis	4
Math. 111--Algebra, or		D.G.S. 112--Verbal Communication	2
Math. 112--College Algebra <sup>1/</sup>	5-3	Math. 114--Plane Trigonometry <sup>1/</sup>	(1)
Physical Education	(1)	Physical Education	(1)
Military (men)	(1)	Military (men)	(1)
Electives	2-6		
Total	16-18	Total	17

Second Year

Chem. 122--Elem. Quan. Analysis	5	Chem. 133--Elem. Org. Chem.	5
Math. 122--Analytic Geometry <sup>1/</sup>	4	Math. 132--Calculus	5
Physics 101--General Physics		Physics 102--General Physics	5
(Mechanics, Heat, and Sound)	5	(Light, Elec., and Magn.)	(1)
Physical Education	(1)	Physical Education	(1)
Military (men)	(1)	Military (men)	(1)
Electives	0-3	Electives	0-2
Total	16-19	Total	17-19

Third Year

Mcbio. 100 & 101--Intro. Mcbio.	5	Mcbio. 311--Food & Indus. Mcbio.	3
Chem. 340--Elem. Phys. Chem. <sup>2/</sup>	3	Mcbio. 312--Tech. of Appl. Mcbio.	2
Chem. 341--Elem. Phys. Chem. Lab. <sup>2/</sup>	1	Chem. 249--Chemistry of Colloids <sup>2/</sup>	3
F.T. 201--Elem. of Food Tech.	3	F.T. 202--Elements of Food Tech.	3
F.T. 260--Raw Materials for Proc.	4	Electives	6
Electives	0-3		
Total	16-19	Total	17

<sup>1/</sup> Students who pass the algebra portion of the mathematics placement test are exempt from the algebra requirement; those who pass both the algebra and trigonometry portions of this test may begin their college mathematics with analytic geometry.

<sup>2/</sup> Students adequately qualified may substitute Chem. 342 and 344 for Chem. 249 and 340-341.

**WATER RESOURCES COMMISSION**  
**Report on the Survey of the Waters of the State of California**

This report is devoted to the study of the water resources of the State of California, and is the first of a series of reports which will be published in the near future. It is the result of a survey of the water resources of the State, conducted by the Water Resources Commission, under the direction of the Governor, and is the first of a series of reports which will be published in the near future. It is the result of a survey of the water resources of the State, conducted by the Water Resources Commission, under the direction of the Governor, and is the first of a series of reports which will be published in the near future.

**TABLE I**

Area	Water Resources	Area	Water Resources
1	Delta	1	Delta
2	San Joaquin	2	San Joaquin
3	Central Valley	3	Central Valley
4	San Francisco Bay	4	San Francisco Bay
5	San Diego	5	San Diego
6	Imperial	6	Imperial
7	Colorado	7	Colorado
8	Utah	8	Utah
9	Nevada	9	Nevada
10	Arizona	10	Arizona
11	New Mexico	11	New Mexico
12	Idaho	12	Idaho
13	Montana	13	Montana
14	Wyoming	14	Wyoming
15	Nebraska	15	Nebraska
16	Kansas	16	Kansas
17	Oklahoma	17	Oklahoma
18	Missouri	18	Missouri
19	Illinois	19	Illinois
20	Indiana	20	Indiana
21	Ohio	21	Ohio
22	Michigan	22	Michigan
23	Wisconsin	23	Wisconsin
24	Minnesota	24	Minnesota
25	North Dakota	25	North Dakota
26	South Dakota	26	South Dakota
27	Nebraska	27	Nebraska
28	Kansas	28	Kansas
29	Oklahoma	29	Oklahoma
30	Missouri	30	Missouri
31	Illinois	31	Illinois
32	Indiana	32	Indiana
33	Ohio	33	Ohio
34	Michigan	34	Michigan
35	Wisconsin	35	Wisconsin
36	Minnesota	36	Minnesota
37	North Dakota	37	North Dakota
38	South Dakota	38	South Dakota
39	Nebraska	39	Nebraska
40	Kansas	40	Kansas
41	Oklahoma	41	Oklahoma
42	Missouri	42	Missouri
43	Illinois	43	Illinois
44	Indiana	44	Indiana
45	Ohio	45	Ohio
46	Michigan	46	Michigan
47	Wisconsin	47	Wisconsin
48	Minnesota	48	Minnesota
49	North Dakota	49	North Dakota
50	South Dakota	50	South Dakota

**TABLE II**

1	Delta	1	Delta
2	San Joaquin	2	San Joaquin
3	Central Valley	3	Central Valley
4	San Francisco Bay	4	San Francisco Bay
5	San Diego	5	San Diego
6	Imperial	6	Imperial
7	Colorado	7	Colorado
8	Utah	8	Utah
9	Nevada	9	Nevada
10	Arizona	10	Arizona
11	New Mexico	11	New Mexico
12	Idaho	12	Idaho
13	Montana	13	Montana
14	Wyoming	14	Wyoming
15	Nebraska	15	Nebraska
16	Kansas	16	Kansas
17	Oklahoma	17	Oklahoma
18	Missouri	18	Missouri
19	Illinois	19	Illinois
20	Indiana	20	Indiana
21	Ohio	21	Ohio
22	Michigan	22	Michigan
23	Wisconsin	23	Wisconsin
24	Minnesota	24	Minnesota
25	North Dakota	25	North Dakota
26	South Dakota	26	South Dakota
27	Nebraska	27	Nebraska
28	Kansas	28	Kansas
29	Oklahoma	29	Oklahoma
30	Missouri	30	Missouri
31	Illinois	31	Illinois
32	Indiana	32	Indiana
33	Ohio	33	Ohio
34	Michigan	34	Michigan
35	Wisconsin	35	Wisconsin
36	Minnesota	36	Minnesota
37	North Dakota	37	North Dakota
38	South Dakota	38	South Dakota
39	Nebraska	39	Nebraska
40	Kansas	40	Kansas
41	Oklahoma	41	Oklahoma
42	Missouri	42	Missouri
43	Illinois	43	Illinois
44	Indiana	44	Indiana
45	Ohio	45	Ohio
46	Michigan	46	Michigan
47	Wisconsin	47	Wisconsin
48	Minnesota	48	Minnesota
49	North Dakota	49	North Dakota
50	South Dakota	50	South Dakota

**TABLE III**

1	Delta	1	Delta
2	San Joaquin	2	San Joaquin
3	Central Valley	3	Central Valley
4	San Francisco Bay	4	San Francisco Bay
5	San Diego	5	San Diego
6	Imperial	6	Imperial
7	Colorado	7	Colorado
8	Utah	8	Utah
9	Nevada	9	Nevada
10	Arizona	10	Arizona
11	New Mexico	11	New Mexico
12	Idaho	12	Idaho
13	Montana	13	Montana
14	Wyoming	14	Wyoming
15	Nebraska	15	Nebraska
16	Kansas	16	Kansas
17	Oklahoma	17	Oklahoma
18	Missouri	18	Missouri
19	Illinois	19	Illinois
20	Indiana	20	Indiana
21	Ohio	21	Ohio
22	Michigan	22	Michigan
23	Wisconsin	23	Wisconsin
24	Minnesota	24	Minnesota
25	North Dakota	25	North Dakota
26	South Dakota	26	South Dakota
27	Nebraska	27	Nebraska
28	Kansas	28	Kansas
29	Oklahoma	29	Oklahoma
30	Missouri	30	Missouri
31	Illinois	31	Illinois
32	Indiana	32	Indiana
33	Ohio	33	Ohio
34	Michigan	34	Michigan
35	Wisconsin	35	Wisconsin
36	Minnesota	36	Minnesota
37	North Dakota	37	North Dakota
38	South Dakota	38	South Dakota
39	Nebraska	39	Nebraska
40	Kansas	40	Kansas
41	Oklahoma	41	Oklahoma
42	Missouri	42	Missouri
43	Illinois	43	Illinois
44	Indiana	44	Indiana
45	Ohio	45	Ohio
46	Michigan	46	Michigan
47	Wisconsin	47	Wisconsin
48	Minnesota	48	Minnesota
49	North Dakota	49	North Dakota
50	South Dakota	50	South Dakota

The report is devoted to the study of the water resources of the State of California, and is the first of a series of reports which will be published in the near future. It is the result of a survey of the water resources of the State, conducted by the Water Resources Commission, under the direction of the Governor, and is the first of a series of reports which will be published in the near future.

Fourth Year

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Chem. 354--Introd. to Biochem. or Chem. 350 and 355--General Biochemistry	5-6	Chem. 329--Food Analysis	5
F. T. 301--Food Processing	4	F. T. 206--Inspection Trip	0
F. T. 363--Introd. to Process Engr.	3	F. T. 302--Food Processing	4
Electives	3-4	F. T. 332--Principles of Sanitation in the Processing and Handling of Foods	2
Total	<u>16</u>	Electives	<u>5</u>
		Total	<u>16</u>

Humanities and Social Science Electives

A minimum of 15 hours must be selected from courses in anthropology, art, economics, finance, foreign language, geography, history, landscape architecture, literature, music, philosophy, political science, psychology, religion, sociology, or speech. Social science courses offered by the Division of General Studies may be used to satisfy this requirement. Students contemplating continuation of their studies for an advanced degree are advised to elect one of the foreign languages.





CURRICULUM IN FOOD TECHNOLOGY  
(for the Degree, Bachelor of Science in Food Technology)

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_  
DATE \_\_\_\_\_

PREScribed COURSES:	HOURS	GRADE	HUMANITIES AND SOCIAL SCIENCES--	
Agric. 100	0		A minimum of 15 semester hours from:	
McBio. 100	3		anthro., art, econ., fin., for. lang.,	
McBio. 101	2		geog., hist., land. arch., lit.,	
McBio. 311	3		music, phil., pol. sci., psych.,	
McBio. 312			religion, soc., and speech	Earned:
Botany 100	4			
Chem. 101 or 102	5-3			
Chem. 105	5			To be
Chem. 122	5			earned:
Chem. 133 <sup>1/</sup>	5			
Chem. 249 <sup>1/</sup>	3			
Chem. 329	5			
Chem. 340-341 <sup>1/</sup>	3-1			
Chem. 354 or	5			
Chem. 350 and 355	6			
D.G.S. 111 <sup>2/</sup>	4			
D.G.S. 112 <sup>2/</sup>	4			
F. T. 201	3		OPEN ELECTIVES	
F. T. 202	3			
F. T. 206	0			TOTAL
F. T. 260	4			HOURS
F. T. 301	4			
F. T. 302	4			
F. T. 332	2			
F. T. 363	3			
Math. Placement Test or				
Math. 111 or 112	5-3			
Math. 114	2			
Math. 122	4			
Math. 132	5			
Physics 101	5			
Physics 102	5			
Mil.-Mil.	(1-1)			
Mil.-Mil.	(1-1)			
P.E.-P.E.	(1-1)			
P.E.-P.E.	(1-1)			

1/ Students adequately qualified may substitute Chem. 342 and 344, Physical Chemistry for Chem. 249 and 340-341.

2/ Rhetoric 101, 102, and Speech 101 may be substituted for D.G.S. 111 and 112.

130 hours, exclusive of regular military and P.E. are required for the degree. A minimum average of 3.0 is required for graduation. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at the U. of I. and a combined average of 3.0 for transfer and U. of I. work.





# FOREST PRODUCTION CURRICULUM (for the degree of B.S. in Forestry)

The curriculum in forest production prepares students for various activities in the establishment, protection, management, and utilization of timber crops and forested lands. Graduates are qualified for employment by public agencies or in private industry. A summer camp of eight weeks is required for all students. This should come between the second and third years. Most of the instruction is given at Camp Rabideau, Blackduck, Minnesota. Estimated cost of \$200 includes tuition, fees, transportation, meals, and lodging.

## First Year

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Agric. 100--Lect. for Freshmen	0	Chem. 101 or 102--General Chemistry	5-3
Botany 100--General Botany	4	G.E. 101--Engineering Drawing	3
Forestry 101--General Forestry	3	Math. 114--Plane Trigonometry <sup>1/</sup>	2
Math. 111 or 112--Algebra <sup>1/</sup>	5-3	Rhet. 102--Rhetoric and Composition	3
Rhet. 101--Rhetoric and Composition	3	Speech 101--Principles of Effective	
Physical Education	(1)	Speaking	3
Military (men)	1	Physical Education	(1)
		Military (men)	1
Total	15-17	Total	16-18

## Second Year

Forestry 111--Dendrology I	2	Forestry 112--Dendrology II	2
Civil Eng. 200--General Surveying	3	Chem. 132--Elementary Organic	
Geol. 105--Agricultural Geology	4	Chemistry	3
Physics 101--General Physics		Physics 102--General Physics	
(Mechanics, Heat, and Sound)	5	(Light, Electricity, and Magnetism)	5
Econ. 108--Elements of Economics	3	Zoology 104--Elementary Zoology	4
Physical Education	(1)	Physical Education	(1)
Military (men)	1	Military (men)	1
		Elective	0-3
Total	19	Total	16-19

## Summer Camp

Eight Weeks in Summer Following Sophomore Year

<u>Course</u>	<u>Subject</u>	<u>Hours</u>
Forestry 211--Introduction to Silvics and Silviculture		3
Forestry 221--Forest Mensuration		3
Forestry 231--Introduction to Wood Utilization		2
Total		8

<sup>1/</sup> Students who pass the algebra portion of the mathematics placement test are exempt from the algebra requirement; those who pass both the algebra and trigonometry portion of this test are exempt from both subjects. Students who are exempt from mathematics should choose other courses from the list of recommended electives.





Third Year

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Forestry 212--Foundations of Silviculture	4	Forestry 214--Seeding and Planting	2
Forestry 222--Advanced Forest Mensuration	3	Forestry 232--Logging and Milling	3
Botany 130--Plant Physiology	5	Forestry 233--Forest Products and Industries	3
Forestry 262--Control of Forest Pests and Hazards	3	Forestry 261--Forest Fire Control and Use	2
Humanities or Social Sciences <sup>1/</sup>	3	Forestry 271--Wood Anatomy and Identification	4
		Humanities or Social Sciences <sup>1/</sup>	3
Total	18	Total	17

Fourth Year

<u>First Semester<sup>2/</sup></u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Forestry 213--Practice of Silviculture	3	Forestry 252--Forest Valuation and Finance	3
Agron. 203--Forest Soils	5	Plant Path. 202--Forest Pathology	3
Forestry 241--Foundations of American Forest Management	3	Humanities or Social Sciences <sup>1/</sup>	6
Forestry 251--Forest Economics	3	Electives	6
Zoology 342--Wildlife Management and Conservation	3		
Total	17	Total	18

Recommended Electives

Agron. 110--Plant and Animal Genetics	3
Botany 160--Introductory Plant Taxonomy	3
Forestry 272--Physical and Mechanical Properties of Wood	3
Forestry 229--Forest Aerial Photo Interpretation	3
C.E. 250--Hydrology	3
Rhet. 151--Business Letter Writing	3
Bus. Law 261--Summary of Business Law	3
Geog. 111--Meteorology	3

A minimum of 140 hours of credit, excluding Physical Education and including 8 credit hours earned in Summer Camp, are required for graduation.

<sup>1/</sup> Humanities and Social Sciences: A minimum of 12 hours in addition to Speech 101 and Econ. 108 are required from anthro., art, econ., fin., for. lang., geog., hist., land. arch., lit., music., philos., pol. sci., psych., religion, sociol., and speech.

<sup>2/</sup> The work of this semester will be arranged so that a two-week field trip may be taken in the first half of the semester. The estimated cost is \$50.



TABLE 1

Line	Item	Quantity	Unit	Value
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TABLE 2

Line	Item	Quantity	Unit	Value
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TABLE 3

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UNIVERSITY OF ILLINOIS  
CURRICULUM IN FOREST PRODUCTION  
(for degree of B.S. in Forestry)

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_

DATE \_\_\_\_\_

PRESCRIBED COURSES	CREDIT	GRADE	PRESCRIBED FORESTRY	CREDIT	GRADE
Agric. 100	0		For. 101	3	
			For. 111	2	
Agron. 203	5		For. 112	2	
Botany 100	4		For. 211*	3	
Botany 130	5		For. 212	4	
			For. 213	3	
			For. 214	2	
Chem. 101 or 102	5-3		For. 221*	3	
Chem. 132	3				
			For. 222	3	
Civ. Eng. 200	3		For. 231*	2	
			For. 232	3	
Econ. 108	3		For. 233	3	
			For. 241	3	
Gen. Eng. 101	3				
Geology 105	4		For. 251	3	
			For. 252	3	
			For. 261	2	
Math. Placement Test or			For. 262	3	
Math. 111 or 112	5-3		For. 271	4	
Math. 114	2				
Physics 101	5		HUMANITIES AND SOCIAL SCIENCES--A minimum of 12 hours from: anthro., art, econ., finance, for. lang., geog., hist., land. arch., lit., music, philos., pol. sci., psych., religion, sociol., or speech		
Physics 102	5				
Plant Path. 202	3				
Zoology 104	4				Earned:
Zoology 342	3				To be
Rhet. 101	3				
Rhet. 102	3				
			OPEN ELECTIVES:		
Speech 101	3				TOTAL HOURS
Mil.-Mil.	1-1				
Mil.-Mil.	1-1				
P.E.-P.E.	(1-1)				
P.E.-P.E.	(1-1)				

140 hours of credit, excluding P.E. and including eight credit hours earned in summer camp\*, are required for graduation. A minimum of 3.0 is required for graduation. Effective August 1, 1956, the students who transfer credits must have a minimum average of 3.0 in all courses taken at U. of I. and combined average of 3.0 for transfer and U. of I. work.





**CURRICULUM IN WOOD TECHNOLOGY AND UTILIZATION**  
(for the degree of B.S. in Forestry)

The curriculum in wood technology and utilization prepares students to work with wood as a raw material. These specialists will enter positions which deal with the physical and mechanical properties of wood. They will be concerned with using wood in new and better ways, with the seasoning, manufacturing, purchase, sale, preservative or fire-retardant treatment, gluing, or finishing of wood. A minimum of ten weeks of non-credit summer industrial experience must be served with some wood-conversion or wood-using industry. This experience usually comes between the junior and senior years.

First Year

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Agric. 100--Lect. for Freshmen	0	Chem. 101 or 102--General Chemistry	5-3
Botany 100--General Botany	4	G.E. 101--Engineering Drawing	3
Forestry 101--General Forestry	3	Math. 114--Plane Trigonometry <sup>1/</sup>	2
Math. 111 or 112--Algebra <sup>1/</sup>	5-3	Rhet. 102--Rhetoric and Composition	3
Rhet. 101--Rhetoric and Composition	3	Speech 101--Principles of Effective	
Physical Education	(1)	Speaking	3
Military (men)	1	Physical Education	(1)
		Military (men)	1
<b>Total</b>	<b>15-17</b>	<b>Total</b>	<b>16-18</b>

Second Year

Forestry 111--Dendrology I	2	Forestry 112--Dendrology II	2
Math. 122--Analytic Geometry	4	Econ. 108--Elements of Economics	3
Physics 101--General Physics (Mechanics, Heat, and Sound)	5	Physics 102--General Physics (Light, Electricity, and Magnetism)	5
Chem. 105--Inorganic Chemistry and Qualitative Analysis	5	Chem. 132--Elementary Organic Chemistry	3
Physical Education	(1)	Physical Education	(1)
Military (men)	1	Military (men)	1
		Elective <sup>2/</sup>	3
<b>Total</b>	<b>18</b>	<b>Total</b>	<b>18</b>

Forestry Summer Camp

Eight Weeks in Summer Following Sophomore Year

<u>Course</u>	<u>Subject</u>	<u>Hours</u>
Forestry 211--Introduction to Silvics and Silviculture		3
Forestry 221--Forest Mensuration		3
Forestry 231--Introduction to Wood Utilization		2
<b>Total</b>		<b>8</b>



Third Year

<u>First Semester</u>	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Forestry 222--Advanced Forest Mensuration	3	Forestry 233--Forest Products and Industries	3
Botany 130--Plant Physiology	5	Forestry 271--Wood Anatomy and Identification	4
T.A.M. 171--Elements of Mechanics	3	Plant Path. 202--Forest Pathology	3
Humanities or Social Sciences <sup>2/</sup>	6	T.A.M. 172--Strength of Materials	3
		Forestry 232--Logging and Milling	3
		Humanities or Social Sciences <sup>2/</sup>	0-3
Total	17	Total	16-19

Summer Industrial Experience: A minimum of 10 weeks' employment preceding the senior year to be served with some wood-conversion or wood-using industry. Employer will be asked to rate student. Student will be required to submit report on his experience.

Fourth Year

Forestry 213--Practice of Silviculture	3	Forestry 234--Wood Seasoning	2
Forestry 241--Foundations of American Forest Management	3	Forestry 252--Forest Valuation and Finance	3
Forestry 251--Forest Economics	3	Forestry 272--Physical and Mechanical Properties of Wood	3
Forestry 275--Seminar in Forest Products	2	Forestry 273--Glues, Plywood and Laminates	4
Electives <sup>2/</sup>	6	Forestry 274--Wood Preservation	3
		Elective <sup>2/</sup>	3
Total	17	Total	18

Suggested Electives

Accy. 201	--Fundamentals of Accounting	3
Chem. 122	--Elementary Quantitative Analysis	5
Math. 161	--Statistics	3
Rhet. 151	--Business Letter Writing	3
Bus. Law 261	--Summary of Business Law	3
Math. 137	--Calculus	3

A minimum of 140 hours of credit, excluding Physical Education and including 8 credit hours earned in Summer Camp, are required for graduation.

<sup>1/</sup> Students who pass the algebra portion of the mathematics placement test are exempt from the algebra requirement; those who pass both the algebra and trigonometry portions of this test are exempt from both subjects. They should take Math. 117 and 127 and will not take Math. 122.

<sup>2/</sup> Humanities and Social Sciences: A minimum of 12 hours in addition to Speech 101 and Econ. 108 are required from anthro., art, econ., fin., for. lang., geog., hist., land. arch., lit., music, philos., pol. sci., psych., religion, sociol., and speech.



TABLE 1

Item	Amount	Percentage	Total
1. General Administration	100.00	100.00	100.00
2. Personnel	100.00	100.00	100.00
3. Materials	100.00	100.00	100.00
4. Travel	100.00	100.00	100.00
5. Miscellaneous	100.00	100.00	100.00
6. Total	500.00	100.00	500.00

The following table shows the distribution of the total amount of \$500.00 among the various items. The total amount is \$500.00, and the total percentage is 100.00%.

TABLE 2

Item	Amount	Percentage	Total
1. General Administration	100.00	100.00	100.00
2. Personnel	100.00	100.00	100.00
3. Materials	100.00	100.00	100.00
4. Travel	100.00	100.00	100.00
5. Miscellaneous	100.00	100.00	100.00
6. Total	500.00	100.00	500.00

TABLE 3

1. General Administration	100.00
2. Personnel	100.00
3. Materials	100.00
4. Travel	100.00
5. Miscellaneous	100.00
6. Total	500.00

The following table shows the distribution of the total amount of \$500.00 among the various items. The total amount is \$500.00, and the total percentage is 100.00%.

The following table shows the distribution of the total amount of \$500.00 among the various items. The total amount is \$500.00, and the total percentage is 100.00%.

UNIVERSITY OF ILLINOIS  
CURRICULUM IN WOOD TECHNOLOGY AND UTILIZATION  
(for degree of B.S. in Forestry)

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_

DATE \_\_\_\_\_

PREScribed COURSES	CREDIT	GRADE	PREScribed FORESTRY	CREDIT	GRADE
Agric. 100	0		For. 101	3	
Botany 100	4		For. 111	2	
Botany 130	5		For. 112	2	
Chem. 101 or 102	5-3		For. 211*	3	
Chem. 105	5		For. 213	3	
Chem. 132	3		For. 221*	3	
			For. 222	3	
			For. 231*	2	
Econ. 108	3		For. 232	3	
Gen. Eng. 101	3		For. 233	3	
			For. 234	2	
Math. Placement Test or			For. 241	3	
Math. 111 or 112	5-3		For. 251	3	
Math. 114	2				
Math. 122	4		For. 252	3	
			For. 271	4	
			For. 272	3	
Physics 101	5		For. 273	4	
Physics 102	5		For. 274	3	
			For. 275	2	
Plant Path. 202	3		Summer Ind. Exp. Report	0	
T.A.M. 171	3		HUMANITIES AND SOCIAL SCIENCES--A minimum of 12 hours from: anthro., art, econ., finance, for. lang., geog., hist., land. arch., lit., music, philos., pol. sci., psych., religion, sociol., or speech		
T.A.M. 172	3				
Rhet. 101	3				
Rhet. 102	3				
Speech 101	3				
Mil.-Mil.	1-1		OPEN ELECTIVES:		
Mil.-Mil.	1-1				
P.E.-P.E.	(1-1)				
P.E.-P.E.	(1-1)				
			TOTAL HOURS		

140 hours of credit, excluding P.E., and including eight credit hours earned in summer camp\*, are required for graduation. A minimum of 3.0 is required for graduation. Effective August 1, 1956, the students who transfer credits must have a minimum average of 3.0 in all courses taken at the U. of I. and combined average of 3.0 for transfer and U. of I. work.





**HORTICULTURAL FOOD CROPS CURRICULUM**  
(for the degree of B.S. in Horticultural Food Crops)

This curriculum is designed to prepare students for a wide variety of positions in the horticultural food industry. The number of requirements has been kept at a minimum to give flexibility and allow the student to progress in the field of his particular interest under the guidance of his adviser. A minimum of 132 hours of credit is required for graduation, including military and excluding physical education.

The student may follow either one of two options:

Option 1 -- Production

This option requires 8 hours of chemistry and emphasizes crop production but includes enough on processing to give the student an insight into the interdependence of these phases and enhance his chances for advancement into positions requiring a knowledge of both. Graduates should be qualified for work in crop production or some phases of raw products research in the processing industry. Students interested in the production or handling of fresh fruits or vegetables will find this a suitable core curriculum.

<u>First Semester</u>		<u>First Year</u>		<u>Second Semester</u>	
	Hours				Hours
Agr. 100--Lect. for Freshmen	0	Chem. 132--Elem. Org. Chem.			3
Bot. 100--General Botany	4	D.G.S. 112 <sup>1</sup> --Verbal Com.			4
Chem. 111--General Chemistry	5	Hort. 100--Intro. Hort.			3
D.G.S. 111 <sup>1</sup> --Verbal Com.	4	Math. 104--Elem. of Alg. & Trig.			3
Physical Education	(1)	Physical Education			(1)
Military (men)	1	Military (men)			1
		Electives			2-3
<b>Total</b>	<b>15</b>	<b>Total</b>			<b>17-18</b>
		<u>Second Year</u>			
Bot. 120--Plant Physiology	5	Geol. 105--Agricultural Geology			4
F. T. 260--Raw Materials for Processing	4	Hort. 242--Vegetable Crops Prod.			3
Physics 101--General Physics	5	Physics 102--General Physics			5
Physical Education	(1)	Physical Education			(1)
Military (men)	1	Military (men)			1
		Electives <sup>2</sup> /			4
<b>Total</b>	<b>16</b>	<b>Total</b>			<b>18</b>
		<u>Third Year</u>			
Mcbio. 100 & 101--Intro. Mcbio.	5	Agron. 201--Soils			5
F. T. 201--Elem. of Food Tech. <sup>3</sup> /	3	Econ. 108--Elem. of Economics			3
Hort. 262--Tree and Small Fruit Culture	3	Entom. 101--Agric. Entomology			3
P. P. 301--Plant Path.	4	Electives <sup>2</sup> /			6
Electives <sup>2</sup> /	3				
<b>Total</b>	<b>18</b>	<b>Total</b>			<b>17</b>
		<u>Fourth Year</u>			
Electives <sup>2</sup> /	18	Electives <sup>2</sup> /			18
<b>Total</b>	<b>18</b>	<b>Total</b>			<b>18</b>

<sup>1</sup>/ Rhet. 101, 102 and Speech 101 may be substituted for D.G.S. 111 and 112.

<sup>2</sup>/ Electives must include at least 12 hours of technical agriculture and 12 hours of humanities and social sciences (see next page).

<sup>3</sup>/ Students in this option will be allowed to enroll in F. T. 201 with the prerequisite of Chem. 132 instead of Chem. 133.

# (The Department of the Interior)

The Department of the Interior is pleased to announce the results of the recent survey of the public lands in the State of California. The survey was conducted by the United States Geological Survey, and the results are being published in a series of reports. The first report, which is being published today, contains information regarding the public lands in the State of California. The report is being published in a series of reports, and the first report is being published today.

The results of the survey are being published in a series of reports.

## Public Lands in California

The results of the survey are being published in a series of reports. The first report, which is being published today, contains information regarding the public lands in the State of California. The report is being published in a series of reports, and the first report is being published today.

Public Lands in California		Public Lands in California	
Section	Area	Section	Area
1	100,000 acres	1	100,000 acres
2	200,000 acres	2	200,000 acres
3	300,000 acres	3	300,000 acres
4	400,000 acres	4	400,000 acres
5	500,000 acres	5	500,000 acres
6	600,000 acres	6	600,000 acres
7	700,000 acres	7	700,000 acres
8	800,000 acres	8	800,000 acres
9	900,000 acres	9	900,000 acres
10	1,000,000 acres	10	1,000,000 acres
11	1,100,000 acres	11	1,100,000 acres
12	1,200,000 acres	12	1,200,000 acres
13	1,300,000 acres	13	1,300,000 acres
14	1,400,000 acres	14	1,400,000 acres
15	1,500,000 acres	15	1,500,000 acres
16	1,600,000 acres	16	1,600,000 acres
17	1,700,000 acres	17	1,700,000 acres
18	1,800,000 acres	18	1,800,000 acres
19	1,900,000 acres	19	1,900,000 acres
20	2,000,000 acres	20	2,000,000 acres
21	2,100,000 acres	21	2,100,000 acres
22	2,200,000 acres	22	2,200,000 acres
23	2,300,000 acres	23	2,300,000 acres
24	2,400,000 acres	24	2,400,000 acres
25	2,500,000 acres	25	2,500,000 acres
26	2,600,000 acres	26	2,600,000 acres
27	2,700,000 acres	27	2,700,000 acres
28	2,800,000 acres	28	2,800,000 acres
29	2,900,000 acres	29	2,900,000 acres
30	3,000,000 acres	30	3,000,000 acres
31	3,100,000 acres	31	3,100,000 acres
32	3,200,000 acres	32	3,200,000 acres
33	3,300,000 acres	33	3,300,000 acres
34	3,400,000 acres	34	3,400,000 acres
35	3,500,000 acres	35	3,500,000 acres
36	3,600,000 acres	36	3,600,000 acres
37	3,700,000 acres	37	3,700,000 acres
38	3,800,000 acres	38	3,800,000 acres
39	3,900,000 acres	39	3,900,000 acres
40	4,000,000 acres	40	4,000,000 acres
41	4,100,000 acres	41	4,100,000 acres
42	4,200,000 acres	42	4,200,000 acres
43	4,300,000 acres	43	4,300,000 acres
44	4,400,000 acres	44	4,400,000 acres
45	4,500,000 acres	45	4,500,000 acres
46	4,600,000 acres	46	4,600,000 acres
47	4,700,000 acres	47	4,700,000 acres
48	4,800,000 acres	48	4,800,000 acres
49	4,900,000 acres	49	4,900,000 acres
50	5,000,000 acres	50	5,000,000 acres

The results of the survey are being published in a series of reports. The first report, which is being published today, contains information regarding the public lands in the State of California. The report is being published in a series of reports, and the first report is being published today.



Option 2 -- Processing

This option requires 18 to 20 hours of chemistry and Food Technology 204 and 301 and trains the student for a position in quality control in the manufacture of horticultural food products. The increased chemistry requirement necessitates a modification in the sequence of required courses.

<u>First Semester</u>		<u>First Year</u>	
	<u>Hours</u>	<u>Second Semester</u>	<u>Hours</u>
Agr. 100--Lect. for Freshmen	0	Chem. 105--Inorganic Chemistry and Qualitative Analysis	5
Bot. 100--General Botany	4	D.G.S. 112 <sup>1</sup> --Verbal Commun.	4
Chem. 101 or 102--General Chemistry	5-3	Geol. 105--Agricultural Geology	4
D.G.S. 111 <sup>1</sup> --Verbal Commun.	4	Math. 104--Elem. of Alg. & Trig.	3
Physical Education	(1)	Physical Education	(1)
Military (men)	1	Military (men)	1
Elective <sup>1</sup>	3		
Total	16-18	Total	18

<u>Second Year</u>		<u>Second Year</u>	
Chem. 122--Elem. Quant. Analysis	5	Chem. 133--Elem. Organ. Chem.	5
Hort. 100--Intro. to Hort.	3	Mc bio. 100 & 101--Intro. Mc bio.	5
Physics 101--General Physics (Mechanics, Heat, and Sound)	5	Physics 102--General Physics (Light, Electricity, and Magnetism)	5
Physical Education	(1)	Physical Education	(1)
Military (men)	1	Military (men)	1
Elective <sup>2</sup>	2		
Total	17	Total	17

<u>Third Year</u>		<u>Third Year</u>	
Bot. 130--Plant Physiology	5	Agron. 201--Soils	5
Entom. 101--Agric. Entom.	3	Econ. 108--Elem. of Econ.	3
F. T. 201--Elem. of Food Tech.	3	Hort. 242--Veg. Crops Production	3
F. T. 260--Raw Materials for Processing	4	Electives <sup>2</sup>	6
Elective <sup>2</sup>	3		
Total	18	Total	17

<u>Fourth Year</u>		<u>Fourth Year</u>	
F. T. 301--Food Processing	4	F. T. 204--Elem. of Food Engin.	3
Hort. 262--Tree and Small Fruit Culture	3	Electives <sup>2</sup>	13-15
P. P. 301--Plant Pathology	4		
Electives <sup>2</sup>	6		
Total	17	Total	16-18

Humanities and Social Science Electives

For either option a minimum of 12 hours shall be selected from courses in anthropology, art, economics, finance, foreign language, geography, history, landscape architecture, literature, music, philosophy, political science, psychology, religion, sociology, and speech. Social science courses offered by the Division of General Studies may be used to satisfy this requirement. Students who contemplate continuing their studies for an advanced degree are advised to elect one of the foreign languages.

<sup>1</sup>/ Rhet. 101, 102 and Speech 101 may be substituted for DGS 111 and 112.

<sup>2</sup>/ Electives must include at least 5 hours of technical agriculture and 12 hours of humanities and social science (see above).





# HORTICULTURAL FOOD CROPS CURRICULUM (Continued)

## Suggested Agriculture Electives -- for Either Option

	<u>Hours</u>
Agr. 114--Agricultural Journalism	3
Agr. 216--Experimental and Biological Statistics	3
Agron. 306--Fertilizers and Their Soil Reactions	3
Agron. 311--Physical Edaphology	3
F. T. 202--Elements of Food Technology	3
F. T. 302--Food Processing	4
F. T. 332--Principles of Sanitation in the Processing and Handling of Foods	2
Hort. 110--Plant and Animal Genetics	3
Hort. 200--Special Problems	3-5
Plant Pathology 307--Fruit Diseases	3
Plant Pathology 308--Vegetable and Canning Crop Diseases	3
Hort. 345--Growth and Development of Horticultural Crops	4
Hort. 363--Advanced Pomology	4
Hort. 382--Improvement of Horticultural Crops by Breeding	3

## Suggested Nonagriculture Electives -- for Either Option

Accy. 201--Fundamentals of Accounting	3
Bus. Law 100--Basic Principles of Business Law	3
Geog. 211--Agricultural Climatology	3
Mgmt. 101--Industrial Organization and Management	3
Mgmt. 205--Production Planning and Control	3
Phil. 102--Logic	3
Pol. Sci. 150--American Government: Organization and Power	3
Pol. Sci. 191--Principles of Political Science	4
Psych. 100--Introduction to Psychology	4
Speech 111--Business and Professional Speaking	2





NAME \_\_\_\_\_  
OPTION \_\_\_\_\_  
DATE \_\_\_\_\_

132 hours, including military and excluding P.E., are required for the degree as outlined above. A minimum average of 3.0 is required for graduation. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at the University of Illinois and a combined average of 3.0 for transfer and University of Illinois work.

1/ Rhet. 101, 102, and Speech 101 may be taken instead of D. G. S. 111 and 112.





**CURRICULUM IN RESTAURANT MANAGEMENT**  
(for the degree of Bachelor of Science in Restaurant Management)

The curriculum in restaurant management prepares students (both men and women) for managerial positions in restaurants and other commercial food service units. It also gives them basic training for work as purchasing agents, kitchen equipment and layout specialists, food inspectors, and for other allied occupations. A total of 126 hours of credit, excluding physical education, is required for graduation.

<u>First Semester</u>		<u>First Year</u>		<u>Second Semester</u>	
	Hours				Hours
Accy. 101--Prin. of Acctg.	3		Accy. 105--Acctg. Procedure		3
Agric. 100--Lect. for Freshmen	3		Chem. 132--Elem. Organic Chem.		3
Literature	3		Literature		3
Chem. 101 or 102 or 111--Gen. Chem.	5-3		Rhet. 102--Rhet. and Comp.		3
Rhet. 101--Rhet. and Comp.	3		Speech 101--Principles of		
Physical Education	(1)		Effective Speaking		3
Military (men)	1		Physical Education		(1)
			Military (men)		1
<b>Total</b>	<b>14-16</b>		<b>Total</b>		<b>17</b>
		<u>Second Year</u>			
	Hours				Hours
Econ. 108--Elements of Econ.	3		Mktg. 101--Prin. of Mktg.		3
Home Ec. 132--Foods and Nutrition	3		Mcbio. 100 & 101--Intro. Mcbio.		3-2
Physiol. 103--Introd. to Human			Psych. 103--Human Behavior		4
Physiology	4		Soc. 100--Principles of Soc.		3
Physical Education	(1)		Physical Education		(1)
Military (men)	1		Military (men)		1
Electives	3-6				
<b>Total</b>	<b>15-18</b>		<b>Total</b>		<b>17</b>
		<u>Third Year</u>			
	Hours				Hours
An. Sci. 104--Selection and Use			Accy. 106--Elem. Cost Acctg.		3
of Meat	2		Home Econ. 240--Quantity Cookery		5
Bus. Law 261--Summary of Bus. Law	3		Management 101--Industrial Org.		
Econ. 240--Labor Problems	3		and Management		3
Home Econ. 220--Dietetics	3		Rhet. 151--Bus. Letter Writing		3
Home Econ. 231--Foods	3		Electives		3
Home Econ. 253--Restaurant In-					
teriors <sup>1/</sup> , or Electives	3				
<b>Total</b>	<b>17</b>		<b>Total</b>		<b>17</b>
		<u>Fourth Year</u>			
	Hours				Hours
Home Econ. 253--Restaurant In-			Home Econ. 350--Inst. Organization		
teriors <sup>1/</sup> , or Electives	3		and Management		4
Home Econ. 345--Institution			Home Econ. 355--Advanced Quant.		
Management	3		Cook. and Catering		3
Mgmt. 248--Personnel Admin.	3		Electives		9-11
Electives	7-8				
<b>Total</b>	<b>16-17</b>		<b>Total</b>		<b>16-18</b>

Note: Two summers of a minimum of eight weeks each of practical restaurant experience are required and should be completed before registering in Home Econ. 355. This experience would normally come at the end of the second and third years.

<sup>1/</sup> Offered in alternate years.





CURRICULUM IN RESTAURANT MANAGEMENT  
(for the degree of B. S. in Restaurant Management)

COLLEGE OF AGRICULTURE  
Office of Associate Dean

NAME \_\_\_\_\_  
DATE \_\_\_\_\_

PREScribed COURSES	HOURS	GRADE	PREScribed COURSES	HOURS	GRADE
Accy. 101	3		Rhet. 101	3	
Accy. 105	3		Rhet. 102	3	
Accy. 106	3				
Agric. 100	0				
Animal Sci. 104	2				
Mcbio. 100 & 101	3-2		Rhet. 151	3	
Bus. Law 261	3		Soc. 100	3	
Chem. 111 or 101 or 102	5-3				
Chem. 132	3		Speech 101	3	
Econ. 108	3		*Summer Practice 1	0	
Econ. 240	3		*Summer Practice 2	0	
Eng. Lit. or (total of Amer. Lit.     6 hours)	3-4 3-2		OPEN ELECTIVES:		
Home Econ. 132	3				
Home Econ. 220	3				
Home Econ. 231	3				
Home Econ. 240	5				
Home Econ. 253	3				
Home Econ. 345	3				
Home Econ. 350	4				
*Home Econ. 355	3				
Management 101	3				
Management 248	3				
Marketing 101	3				
Physiol. 103	4				
Psychol. 103	4				
Mil.-Mil.	1-1				
Mil.-Mil.	1-1				
P.E.-P.E.	(1-1)				
P.E.-P.E.	(1-1)				
					TOTAL HOURS

\*Two summers (or equivalent) of a minimum of eight weeks each of practical restaurant experience are required and must be completed before registering in Home Econ. 355. This experience would normally come at the end of the second and third years. Effective August 1, 1956, students who transfer credits must have a minimum average of 3.0 in all courses taken at the U. of I. and a combined average of 3.0 for transfer and U. of I. work. Minimum average of 3.0 is required for graduation. 126 hours, including military and excluding P.E., are required for the degree as outlined above.

























UNIVERSITY OF ILLINOIS-URBANA



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